River's Edge
484-490 Boston Post Road
Wayland, Massachusetts

PHASE I ENVIRONMENTAL SITE ASSESSMENT & PHASE II LIMITED SITE INVESTIGATION

AUGUST 7, 2019

PREPARED FOR:
WP East Acquisitions, LLC
91 Hartwell Avenue, 3rd Floor
Lexington, MA 02421

PREPARED BY:
The Vertex Companies, Inc.
100 North Washington Street, Suite 302
Boston, MA 02114
PHONE 617.275.5407

VERTEX PROJECT NO: 46047

August 7, 2019

WP East Acquisitions, LLC
91 Hartwell Avenue, 3rd Floor
Lexington, MA 02421
Attn: Mr. David Moore

RE: Phase I Environmental Site Assessment & Phase II Limited Site Investigation
River's Edge
484-490 Boston Post Road
Wayland, Massachusetts
VERTEX Project. No. 46047

Dear Mr. Moore:

The Vertex Companies, Inc. (VERTEX) is pleased to submit this Phase I Environmental Site Assessment (ESA) and Phase II Limited Site Investigation (LSI) report for the above referenced property (the Site). The purpose of this assessment was to identify Recognized Environmental Conditions (RECs) in connection with the Site. A REC is defined as "the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." It does not include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Our work was conducted in conformance with proposals P.0453.17 and P.3400.18 executed by Mr. David Moore on July 27, 2017 and March 25, 2019, respectively, and in accordance with the E 1527-13 American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate, as well as the U.S. Environmental Protection Agency's (USEPA) All Appropriate Inquires (AAI) Final Rule of November 1, 2005, as amended December 30, 2013. To the best of our knowledge, this Phase I ESA report is true and accurate.

We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.10 of 40 CFR Part 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all

appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Please do not hesitate to contact us at your convenience should you have any questions or comments regarding this report or our recommendations. It has been a pleasure working with you on this project.

Sincerely,

The Vertex Companies, Inc.

Kristen Sarson
Project Manager

William Gibbons, PG, LSP
Senior Project Manager

Frank Calandra, PE, LSP
Division Manager – Remediation

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PHASE II LIMITED SITE INVESTIGATION**

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484-490 Boston Post Road
Wayland, Massachusetts
VERTEX Project. No. 46047**

1.0 SUMMARY

On July 27, 2017, The Vertex Companies, Inc. (VERTEX) was retained by WP East Acquisitions, LLC to conduct a Phase I Environmental Site Assessment (ESA) and Phase II Limited Site Investigation (LSI) of the property, located at 484-490 Boston Post Road in Wayland, Massachusetts (the site). According to the South Middlesex Registry of Deeds, the site is currently owned by the Town of Wayland.

According to the Town of Wayland Assessor's Office, the site consists of parcels identified as Map 22, Lot 6 and Lot 7, and a portion of Map 22 Lot 3. The combined area of the site is approximately 7 acres. The western portion of the site is developed with a vacant wastewater treatment plant, an equalization tank, primary clarifier tank, thickener tank, wastewater discharge basins, and a hazardous material storage trailer associated with the former use of this area as the Route 20 Septage Facility. The building and associated structures were built in 1983. The exterior parking areas are currently used for school bus storage. Additionally, an office trailer has been located directly south of the site building since 2012.

The remainder of the site is undeveloped. The eastern half of the site is covered by a 32,000 cubic-yard stockpile of soil and construction materials generated during Wayland Department of Public Works (DPW) projects over many years, and a 4,500 cubic-yard stockpile of screened soil (reportedly originating from the 32,000 cubic-yard stockpile). The northwestern portion of the site was previously used by the Wayland Police Department as a firing range but has not been a firing range since 2017. Various piles of concrete debris, jersey barriers, and berms constructed of organic soils and compost are located throughout the eastern and northwestern portion of the site.

Phase I Environmental Site Assessment (ESA) and Phase II Limited Site Investigation (LSI) Findings

VERTEX's completed this Phase I ESA in accordance with the American Society for Testing and Materials (ASTM) E 1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process." Findings identified below are based on a review of readily available historical information; interviews with Wayland municipal officials; historical environmental reports; a review of federal and state regulatory databases provided by Environmental Data Resources (EDR); and VERETX site reconnaissance visits. A summary of our findings and Phase II investigations to further investigate our findings is provided as follows:

Former Wastewater Treatment Plant Infiltration Beds

The site historically consisted of undeveloped land prior to construction of the wastewater treatment plant in 1983, with the exception of a portion of the site utilized as a firing range from the mid-1970s to 2017 (discussed further below). The treatment plant operated until 2009.

The wastewater treatment plant maintained three wastewater infiltration beds along the western border of the site. The infiltration beds were a discharge point for treated wastewater; however, due to the potential for environmental impacts and oil and hazardous materials (OHM) discharge at these locations, VERTEX identified potential impacts to soil and groundwater an environmental concern.

To assess potential impacts to soil and groundwater, VERTEX advanced two soil borings within the wastewater infiltration beds. Soil samples collected from the borings were submitted for laboratory analysis of soil characterization parameters. Based on the soil analytical data, constituents of concern were not identified at concentrations exceeding applicable Massachusetts Contingency Plan (MCP) Reportable Concentrations. Based on the absence of evidence of impact, the wastewater infiltration beds are no longer considered an environmental concern.

Soil Stockpiles

Based on available historical records, excess materials from DPW utility projects conducted at locations throughout the town were stockpiled in the eastern portion of the site beginning after the construction of the wastewater treatment plant. Transportation of materials for stockpiling at the site continued until 2017.

Based on potential historical impacts to the to the approximate 32,000-cubic yard soil stockpile of soil, DPW construction debris, and asbestos containing waste materials (ACWM), VERTEX identified the stockpile as a potential concern. To assess potential impacts to soil, VERTEX conducted a Phase II LSI to assess the 32,000 cubic-yard stockpile for potential on-site reuse and off-site disposal. Samples were collected at a frequency of one soil sample for every 500 cubic yards, which is the standard frequency required for Massachusetts landfills and soil reclamation facilities. Soil samples were submitted to a laboratory for the analysis of soil characterization parameters. Based on the analytical results, semi-volatile organic compounds (SVOCs) and lead were detected in several samples at concentrations exceeding MCP Reportable Concentrations. Based on the analytical data, the 32,000 cubic-yard stockpile represents a Recognized Environmental Conditions (REC) in connection with the site.

Former Firing Range

According to Wayland municipal officials and historical environmental reports, the northwestern portion of the site was utilized by the Wayland Police Department as a firing range since at least the mid-1970s until 2017. Based on the likelihood of lead impacts to shallow soils from historical use of lead bullets at the firing range, VERTEX identified this as an area of concern.

To assess lead impacts, VERTEX performed on-site screening of the firing range soils utilizing a handheld x-ray fluorescence (XRF) meter. Based on the screening results, VERTEX collected six soil samples for laboratory analysis of lead, antimony, copper, zinc, tungsten, and toxicity characteristic leaching procedure (TCLP) lead, and one composite sample for soil characterization purposes. Based on the detection of lead, antimony, and copper concentrations exceeding

applicable MCP RCS-1 Reportable Concentrations, metals impacts to firing range soils represents a REC in connection with the site.

Historical Releases

A review of federal and state regulatory databases provided by Environmental Data Resources (EDR) of Shelton, Connecticut indicated that the site is listed on various databases; however, the majority of the listings are attributed to the Wayland Transfer Station, located approximately 1,000 feet northwest and off-site, but maintaining the same address as the site (484 Boston Post Road). EDR regulatory database listings attributed to the site include Historical Waste Generator (HW GEN), Rhode Island Manifest (RI Manifest), State Hazardous Waste Site (SHWS), Release, and Asbestos:

- The site is included on the HW GEN and RI Manifest due to the transportation of various quantities of oil between 2004 and 2006. Based on the available information, these listings were not associated with other databases that would indicate a release of OHM had occurred to the environment; therefore, inclusion in the HW GEN and RI Manifest databases do not represent an environmental concern.

- The site is included on the SHWS and Release databases due to a reported release occurring 1987 and associated with Release Tracking Number (RTN) 3-001724. However, the site was later removed as a Disposal Site in 1993 based on a further review of available documentation by the Massachusetts Department of Environmental Protection (MassDEP). According to the MassDEP online file viewer the release was associated with the discharge of approximately 3 gallons of unknown oil "ostensibly from a restaurant grease trap" to the wastewater treatment plant's receiving tanks. Due to the regulatory status of the RTN, this listing is not considered a REC.

- The site is included on the SHWS, Release, and Asbestos databases due to the identification of greater than 1 pound of ACWM within the DPW excess-material stockpile. The asbestos was identified in 2017 and reported to the MassDEP who subsequently assigned the release RTN 3-34474. In December 2018, 2,000 cubic-yards

of co-mingled asbestos debris and soil was excavated from the stockpile and transported off-site. Based on the successful remediation of the delineated ACWM impacted area, the ACWM identified in August 2017 is a Historical Recognized Environmental Condition (HREC) to the site. Additionally, during the Phase II LSI investigation of the 32,000 cubic-yard stockpile, VERTEX collected asbestos samples at the same frequency as the waste characterization samples (1 sample per 500 cubic yards). Based on the analytical data, asbestos was not identified in the soil samples collected from the stockpile. Therefore, the detection of ACWM within the stockpile remains an HREC to the site.

Former Hazardous Materials Storage

At the time of VERTEX's site reconnaissance on April 11, 2019, the majority of OHM stored on site was located within four areas at the site: the laboratory area within the main site building, the machine shop area within the main site building, the hazardous materials storage trailer, and the office trailer. Evidence of a release associated with OHM storage at the site was not observed during VERTEX's site reconnaissance; however, due to stored materials and secondary containment structures, VERTEX could not directly inspect the floor of the hazardous materials storage trailer to identify potential releases of OHM. To assess impacts to soil and groundwater from potential releases from these areas, VERTEX advanced one soil boring and installed one monitoring well west and east of the hazardous materials storage trailer, respectively, to investigate for potential releases from OHM storage within the trailer. Based on the soil data collected from upgradient and the groundwater analytical data collected from downgradient of the hazardous material storage trailer, constituents of concern were not identified at concentrations exceeding applicable MCP Reportable Concentrations. Based on the absence of impact, the hazardous material storage trailer is not a REC associated with the site.

Former Underground Storage Tanks

Based on available historical documentation, several USTs were historically located on site, including one 1,000-gallon diesel-fuel UST, one 4,000-gallon No. 2 fuel-oil UST, and two 2,000-

gallon ferric-chloride USTs. Based on available documentation at the Wayland Fire Department, the USTs were removed in 1998; however, no soil screening or soil analytical data associated with the removal was available. To investigate the potential release from former on-site USTs, VERTEX advanced five soil borings within the area of the former USTs, with one boring completed as a permanent monitoring well. Soil samples and one groundwater sample were collected and submitted for laboratory analysis of total petroleum hydrocarbons (TPH), in addition to soil characterization parameters. Based on the soil and groundwater analytical data collected from the areas of the former USTs, constituents of concern were not identified at concentrations exceeding applicable MCP Reportable Concentrations. Based on the absence of impacts, the former on-site USTs no longer represent a REC.

Groundwater Impacts from Sudbury Landfill

The site is located in a mostly industrial and commercial area of Wayland, Massachusetts. Review of readily available historical information indicated that the site historically was bordered to the west by a gravel pit from at least the 1940s until the gravel pit was converted into the Sudbury Landfill in 1970. The landfill remained in operation until 1996 and was capped in 2005. In 2013 the landfill was developed with solar panels. Historically, south of the site has been bordered by Boston Post Road since at least 1894. South of the site beyond Boston Post Road was used as an unlined landfill between 1958 and 1980. The landfill has since been capped, and the area of the former landfill south of the site is now forested and undeveloped. Directly north and east of the site have remained undeveloped forested wetlands since at least 1894 until present. The Wayland Transfer Station, formerly the Wayland Sand Hill Landfill, was developed approximately 1,000 feet northwest of the site in 1980 and remains operational to this day. The locations of these properties relative to the site are depicted on Figure 2 – Site Schematic. The Sudbury River and associated Rare Wetland Wildlife Habitat and Protected Open Space is located approximately 200 feet east of the site. Groundwater flow is inferred to be east-southeast toward the river.

Based on previous subsurface investigations completed at the site, concentrations of dissolved arsenic exceeding applicable MCP Method 1 GW-1 standards were detected in monitoring wells located between the site and the Sudbury Landfill. To investigate the potential of dissolved

arsenic and other constituents of concern originating from the upgradient Sudbury Landfill, during the Phase II LSI VERTEX installed six groundwater monitoring wells throughout the site and collected groundwater samples for laboratory analysis of dissolved arsenic in addition to parameters recommended by the Town of Wayland. Based on groundwater analytical data, dissolved arsenic and nickel were detected in groundwater samples collected from monitoring wells V-102 (MW) and V-106 (MW), respectively, at concentrations exceeding applicable MCP RCGW-1 Reportable Concentrations. Additionally, ammonia was detected at concentrations exceeding applicable MCP RCGW-1 Reportable Concentrations in groundwater samples collected from monitoring wells V-101 (MW), V-102 (MW), V-105 (MW), and V-106 (MW). Based on the previously-established groundwater flow direction, the detections are related to the upgradient Sudbury Landfill and represent a REC in connection with the site.

Methane Impacts from Sudbury Landfill

Methane was also identified as a potential environmental issue. During a historical Phase II conducted at the site, methane concentrations were measured in a soil vapor point advanced within the firing range at concentrations up to 25% of the lower explosive limit (LEL). Based on the proximity of the Sudbury Landfill to the site and the historically measured concentrations of methane within the soil vapor at the site, during conducted additional assessment to further delineate methane impacts.

To investigate the potential of methane in soil vapor at the site, during the Phase II LSI, VERTEX installed six soil vapor sample points and collected soil vapor samples for laboratory analysis of methane from each point. Based on soil vapor analytical data, methane was not detected at concentrations exceeding the laboratory detection limit; however, screening data from the soil vapor points indicated the presence of methane at concentrations up to 10% of the LEL. Based on the detection of methane during screening activities, the continued elevated readings of methane above 10% of the LEL along the perimeter of the abutting Sudbury Landfill, VERTEX considers the potential for methane intrusion at the site to be a Business Environmental Risk (BER) that should be addressed during site redevelopment.

Non-ASTM Additional Services

In accordance with the proposed scope of work, additional services including the assessment of asbestos-containing materials (ACMs) and lead-based paint (LBP) in buildings are to be reported under a separate report.

Conclusions

VERTEX has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and a Phase II LSI of the River's Edge property, located at 484 – 490 Boston Post Road in Wayland, Massachusetts. Exceptions to, or deletions from, this practice are described in Section 10.0 of this report. This assessment revealed the following RECs in connection with the site:

- The detection of SVOCs and lead at concentrations exceeding applicable MCP RCS-1 Reportable Concentrations in soil in samples collected from the 32,000 cubic-yard stockpile represents a REC;
- The detection of lead, antimony, and copper at concentrations exceeding applicable MCP RCS-1 Reportable Concentrations in soil samples collected from the firing range at the site represents a REC; and
- Dissolved arsenic, nickel, and ammonia, originating from the upgradient Sudbury Landfill, at concentrations exceeding MCP RCGW-1 reportable concentrations in groundwater samples collected from the site represent a REC.

This assessment revealed the following BERs in connection with the site:

- The elevated readings of methane above 10% of the LEL along the perimeter of the abutting Sudbury Landfill and the potential for methane intrusion at the site represents a BER that should be addressed during site redevelopment.

This assessment revealed the following HRECs in connection with the site:

- Based on the successful remediation of ACWM associated with RTN 3-34474, the ACWM in the stockpile is considered an HREC.

Recommendations

Based on the findings of VERTEX's assessment, VERTEX recommends the following:

- Based on the detection of SVOCs, lead, antimony, and copper at concentrations exceeding MCP RCS-1 Reportable Concentrations in soil samples collected from the stockpile and the firing range, conditions exist for which the MCP requires notification to be made to the MassDEP within 120-days of the property owner's knowledge or within 120 days of a new owner's purchase of the property.

- Based on the detection of dissolved arsenic, nickel, and ammonia in groundwater samples at concentrations exceeding MCP RCGW-1 reportable concentrations, a condition exists for which the MCP requires notification to be made to the MassDEP within 120-days of the property owner's knowledge or within 120 days of a new owner's purchase of the property. However, based on a review of historical environmental reports and on the location and distribution of the detected concentrations, the detected exceedances are attributable to the Sudbury Landfill. VERTEX recommends notifying the MassDEP of the groundwater release condition and the submittal of a Downgradient Property Status (DPS) Opinion in accordance with 310 CMR 40.0180.

- Based on screening data and the on-going detections of methane above 10% of the LEL along the perimeter of the abutting Sudbury Landfill, VERTEX recommends the installation of chemically resistant vapor barriers and/or a vapor mitigation system to protect indoor air in future buildings constructed where occupied ground floors and/or basement areas may be in contact with the site soils.

- Based on the laboratory analytical results most of the sampled soil is suitable for disposal at Massachusetts facilities permitted to receive soils containing OHM at concentrations that do not exceed MCP RCS-1 and RCS-2 Reportable Concentrations

(RCS-1 and RCS-2 facilities). VERTEX recommends the preparation and submittal to the MassDEP of a Release Abatement Measure (RAM) Plan for the remediation and management of soils impacted with OHM concentrations exceeding MCP Reportable Concentrations.

- VERTEX recommends that a Soils Management Plan (SMP) be prepared for reference and use by site contractors. The SMP would apply to the management of soil during construction, other than soils addressed under the RAM Plan prior to construction.

For additional details regarding VERTEX's recommendations, please see Section 11.2.

2.0 SITE AND VICINITY CHARACTERISTICS

2.1 Site Description

The site is located at 484 – 490 Boston Post Road (Massachusetts Route 20) in Wayland, Massachusetts. According to the Town of Wayland Assessor's Office, the site consists of parcels identified as Map 22, Lot 6 and Lot 7, and a portion of Map 22 Lot 3. The combined area of the site is approximately 7 acres. The site location is provided on Figure 1 - Site Locus Map.

2.2 Site Improvements

The western portion of the site is developed with a vacant water treatment plant building, an equalization tank, primary clarifier tank, thickener tank, wastewater infiltration beds, and a hazardous-material storage trailer associated with the former use of this area as the Route 20 Septage Facility. The building and associated structures were built in 1983. The building is a metal-framed brick and concrete-block structure, with a flat asphalt roof. The interior of the site building includes a garage area, laboratory, control room, machine shop, offices, and a wastewater treatment area that includes a full basement housing various machinery associated with processing wastewater. The majority of the interior is finished with materials including concrete block, tile, and drywall. The equalization tank, primary clarifier tank, and thickener tank are mostly of fiber glass construction.

Additionally, an office trailer has been located directly south of the site building since 2012 and two metal storage containers associated with the firing range have been located along the eastern perimeter of the firing range since at least 2010. There are no other buildings located at the site.

The approximately eastern-half of the site is covered by a 32,000 cubic-yard stockpile that has been generated from Wayland DPW projects located throughout the town over many years and a 4,500 cubic-yard stockpile of screened soil (reportedly originating from the 32,000 cubic-yard stockpile). The northwestern portion of the site was previously used by the Wayland Police Department as a firing range from at least the mid-1970s until 2017. Various piles of concrete

debris, jersey barriers, and berms constructed of organic soils and compost are located throughout the eastern and northwestern portion of the site.

During site reconnaissance, VERTEX observed one existing monitoring well on site (MW-3), and at least three off-site monitoring wells abutting the site boundary. Based on available historical documentation, the observed monitoring well was installed as part of a network of monitoring wells meant to monitor site groundwater for potential impacts associated with the upgradient Sudbury Landfill and former use as a wastewater treatment plant.

For a layout of the site, please refer to Figure 2 - Site Schematic. Photographic documentation of the site and surrounding areas is provided in Appendix A.

2.3 Tenant Operations

The paved parking and driveway areas in the western portion of the site are currently used by the Wayland School District for school bus storage. The remainder of the site is vacant. Various chemicals and oils associated with the current use for school bus storage, and former use of the site as a wastewater treatment plant remain on site. Chemicals and oils are mostly located within four areas at the site: the laboratory area within the main site building, the machine shop area within the main site building, the hazardous materials storage trailer, and the office trailer.

Laboratory Area:

At the time of VERTEX's site reconnaissance on April 11, 2019, chemicals within the laboratory area included sulfuric acid, various reagents, and miscellaneous unlabeled bottles. Chemicals are mostly stored within a fume hood and an unworking refrigerator. The floor of the laboratory area appeared to be in good condition, and as such, the current storage of chemicals is not considered a current environmental concern; however, prior to demolition, VERTEX recommends the removal and proper disposal of all laboratory chemicals.

Machine Shop Area:

On April 11, 2019, chemicals and oils stored within the machine-shop area included various cans of lubricant, insecticide, welding chemicals, gear oils, and paints. The majority of chemicals were observed to be stored on a work bench and metal shelves; however, a two empty quart-sized bottles were observed on the ground. Additionally, visual access to the entire room was limited due to the storage of school furniture and equipment. Based on the current observable conditions, due to the minimal volumes of stored chemicals and oils and absence of evidence of a release, these materials are not considered a current environmental concern. However, prior to demolition, VERTEX recommends the removal and proper disposal of all observed chemicals and oils.

Hazardous Materials Storage Trailer:

The hazardous materials storage trailer is separated into two rooms. On April 11, 2019, in the northern portion of the trailer, VERTEX observed approximately five 55-gallon drums of oil, three 30-gallon drums of oil, and four 5-gallon buckets of oil are stored. Hazardous materials in the southern portion of the trailer was limited to a 5-gallon flammable-liquids storage can of unknown contents, and a flammables storage cabinet which was inaccessible during VERTEX's reconnaissance. Both sides of the trailer appeared to have secondary containment, but the integrity of the underlying floor could not be verified. Based on the potential for a release of hazardous materials within the trailer to the ground below, VERTEX identified the hazardous materials storage trailer as a REC to be investigated during the Phase II LSI.

Office Trailer:

On April 11, 2019, chemicals in the office trailer were limited to typical cleaning chemicals, which were well stored, with no signs of staining or a release. According to the site contact, school bus maintenance and repairs are conducted off-site and significant quantities of petroleum products and hazardous material are not used or stored on-site. As such, the current on-site operations are not considered an environmental concern.

2.4 Current Uses of Adjoining Properties

The site is in a mostly industrial and commercial area of Wayland, Massachusetts. The locations of surrounding properties relative to the Site are depicted on Figure 2 – Site Schematic.

NEARBY/ADJOINING PROPERTY SUMMARY		
DIRECTION	**PROPERTY USE**	**POTENTIAL CONCERNS**
North	Undeveloped forested land and wetlands	None
Northwest	Sudbury Landfill followed by the Wayland Transfer Station	See below
West	Sudbury Landfill	See below
South	Undeveloped land followed by Massachusetts Bay Transit Authority (MBTA) railroad tracks	None
East	Wetlands and conservation land	None

See Section 6.2 for additional information regarding the Sudbury Landfill and Wayland Transfer Station.

2.5 Physical Setting Source(s)

Physical setting sources specified in Section 13.0 of this report were reviewed to provide information about the geology and hydrogeology of the site.

2.5.1 Topography

A review of the 2012 USGS Topographic Quadrangle Map of Framingham, Massachusetts indicates that the surface elevation of the site is approximately 120 to 150 feet above mean sea level (amsl). The surface elevation at the portion of the site occupied by the former wastewater treatment plant is approximately 150 feet and the elevation of eastern portion of the site is approximately 120 feet, with the downward slope continuing east toward the wetlands and the Sudbury River.

2.5.2 Surface Water

No naturally-occurring surface water bodies or wetland areas were observed on-site. The closest naturally-occurring surface water body is the Sudbury River, located approximately 1,400 feet east of the site. According to the National Wetlands Inventory (NWI) Wetlands Mapper, the area between the site and the Sudbury River consists of wetlands. An additional forested wetland is located northerly adjacent to the site. According to the Federal Emergency Management Administration (FEMA) Flood Insurance Rate Map for the site, the site is not located within a 100-year or 500-year flood zone.

2.5.3 Geologic Conditions

According to the United States Department of Agriculture (USDA) Web Soil Survey and the Surficial Geology Map of Massachusetts, the majority of the soils at the site consist of Udothents sandy loams, which are well drained. According to previous subsurface investigation activities, as discussed in Section 5.3, soils encountered on-site have consisted of fill material overlying glacial till. According to the United States Geological Survey (USGS) Bedrock Map of Massachusetts, bedrock in the area of the site is noted as quartzite, schist, calc-silicate quartzite and amphibolite. Bedrock outcroppings were not observed during the site visit.

2.5.4 Groundwater

According to previous subsurface investigation activities conducted on-site, as discussed in Section 5.3, groundwater flow has been calculated to be to the southeast. Groundwater has been encountered between 15 and 30 feet below ground surface (bgs). Actual local groundwater flow direction can be influenced by factors such as local surface topography, underground structures, seasonal fluctuations, soil and bedrock geology, and production wells, none of which were considered during this study.

3.0 USER-PROVIDED INFORMATION

In accordance with the United States Environmental Protection Agency (USEPA) All Appropriate Inquiries (AAI) Final Rule of November 1, 2005, as amended December 30, 2013, VERTEX interviewed knowledgeable individuals about the site and requested the following information about the site from WP East Acquisitions, LLC ("User"):

- Whether they had knowledge of the presence of environmental cleanup liens for the Site;
- Whether they had knowledge of activity and use limitations (AULs) such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the Site;
- Whether they had specialized knowledge that is material to the presence of RECs at the Site, including personal knowledge or experience related to the Site or nearby properties based on professional experience or knowledge of the Site;
- Whether the amount asked for the Site was fair market value (FMV) or if it was lower due to the presence of contamination;
- Whether they had knowledge of obvious indicators of OHM releases at the Site such as spills, stains, releases, or cleanups on or near the site;
- Whether they had common knowledge about the use of specific chemicals, possible contamination, or past use of the Site and surrounding area; and
- Reason for performing the ESA.

WP East Acquisitions, LLC provided VERTEX with the name of the Site contact, Mr. Paul Brinkman, Town of Wayland Town Engineer, representing the owner and indicated that the reason for performing the ESA was to support their decision making regarding a potential purchase of the Site. In addition, WP East Acquisitions, LLC provided VERTEX with previous environmental reports

for the site (discussed in Section 5.3). No other information regarding the site was provided by the Client.

4.0 INTERVIEWS

VERTEX conducted interviews regarding site history and the current on-site operations with the following individuals:

INTERVIEWS		
NAME/COMPANY	**TITLE/POSITION**	**INFORMATION PROVIDED**
Paul Brinkman/Town of Wayland	Town Engineer	Provided site access, as well as information regarding site operations.
Municipal Officials	Various	Provided municipal information.

Information obtained from these interviews is discussed in relevant sections of this report. Please refer to Section 6.3 for a summary of information obtained from municipal inquiries.

5.0 HISTORICAL RECORDS REVIEW

Past land uses for the site and adjoining properties were assessed to identify historical practices or conditions that may have impacted the site. This was accomplished by reviewing historical information from several sources including but not limited to; interviews with current owners and tenants, review of available previous environmental reports and ownership records, historical information obtained from regulatory sources, aerial photographs, city directories and historical maps. Information concerning prior reports provided, if any, is included in Section 5.3.

5.1 Historical Site Use Summary

Based on a review of readily available historical information, the site historically consisted of undeveloped cleared land prior to construction of the wastewater treatment plant in 1983, with the exception of a portion of the site utilized as a firing range since at least the mid-1970s (discussed further below). The treatment plant operated until 2009. Based on available historical records, it appears that the storage of excess DPW soil and waste asphalt, masonry, concrete, and other debris in the eastern portion of the site began following the construction of the wastewater treatment plant. Transportation of excess DPW material for storage at the site continued until 2017.

According to Wayland municipal officials and historical environmental reports, the northwestern portion of the site was utilized by the Wayland Police Department as a firing range since at least the mid-1970s until 2017.

5.2 Historical Adjoining Properties Use Summary

The site is in a mostly industrial and commercial area of Wayland, Massachusetts. Review of readily available historical information indicated that the site was historically bordered to the west by a gravel pit from at least the 1940s until the gravel pit was converted into a landfill in 1970. The landfill remained in operation until 1996 and was capped in 2005. In 2013 the landfill was developed with solar panels. Historically, south of the site has been bordered by Boston Post Road since at least 1894. South of the site beyond Boston Post Road was used as an unlined

landfill between 1958 and 1980. The landfill has since been capped, and south of the site is currently forested and undeveloped. Directly north and east of the site have remained undeveloped forested wetlands since at least 1894 until present. The Wayland Transfer Station, formerly the Wayland Sand Hill Landfill, was developed approximately 1,000 feet northwest of the site in 1980 and remains in operation. The locations of these properties relative to the site are depicted on Figure 2 – Site Schematic.

5.3 Previous Environmental Reports

VERTEX was provided with the following previous reports. Copies of the prior reports are included in Appendix D.

Phase I Environmental Site Assessment and Limited Phase II Investigation Report, prepared by Tighe & Bond for The Town of Wayland, dated October 2012.

At the request of the Town of Wayland Economic Development Committee, Tighe & Bond conducted a Phase I ESA and Phase II LSI at the site. At the time of the report, the wastewater treatment plant had ceased operation; however, the firing range and DPW stockpiles were active.

Based on Tighe & Bond's review of Wayland Fire Department records, USTs historically located on site, included one 1,000-gallon diesel-fuel UST, one 4,000-gallon No. 2 fuel-oil UST, and two 2,000-gallon ferric-chloride USTs, each reportedly removed in 1998. The report also indicated that the site was listed on the EDR SHWS database under MassDEP RTN 3-001724 due to the apparent release of waste gear-oil in 1986. Based on VERTEX's review of available documentation on the MassDEP Searchable Sites Database, the release most likely consisted of oil from a restaurant grease trap; VERTEX did not identify mentions of waste gear oil. Tighe & Bond reported that the site was removed as a Disposal Site in 1993 following additional investigation by the MassDEP that determined the release did not qualify. This RTN is discussed further in Section 6.1.

Based on the results of the Phase I ESA, Tighe & Bond identified the following RECs:

- The former 1,000-gallon diesel-fuel tank, 4,000-gallon No. 2 fuel-oil UST, and two 2,000-gallon ferric-chloride USTs located at the former septage treatment facility;
- The historic use of lead-containing bullets at the police firing range;
- The elevated concentrations of methane detected in a soil vapor point located on the eastern side of the abutting Sudbury Landfill;
- Concentrations of arsenic consistently detected at concentrations exceeding MCP Method 1 GW-1 cleanup standards in a groundwater monitoring well located on the eastern side of the landfill of the abutting Sudbury Landfill; and
- The soil stockpile generated from construction activities within the Town throughout the years.

To investigate the identified RECs, Tighe & Bond completed a Phase II LSI that included the following scope of work:

- The advancement of seven soil borings to depths up to 20 feet bgs (based on the report, soil samples were not screened, and samples were not collected for laboratory analysis).
- The collection of one groundwater sample from an existing on-site monitoring well submitted for laboratory analysis of extractable petroleum hydrocarbons (EPH) with polycyclic aromatic hydrocarbons (PAHs), volatile petroleum hydrocarbons (VPH), and volatile organic compounds (VOCs);
- The investigation of the firing range using an XRF meter, including the screening of up to 80 samples throughout the berms and range;
- The advancement of three shallow soil vapor monitoring points for soil vapor screening; and
- Tighe & Bond advanced an undesignated number of test pits to investigate the stockpiled soil generated from construction activities within the Town of Wayland. At

the time of Tighe & Bond's investigation, there were three stockpiles on site that they designated:

- Stockpile No. 1: The largest stockpile, measured at a height of 40 feet, with a length of 200 feet and width of 150 feet.
- Stockpile No. 2: Tighe & Bond reported that this material originated from Stockpile No. 1 and had previously been processed with an on-site crusher. The stockpile measured approximately 20 feet high, 200 feet long, and 30 feet wide. Tighe & Bond did not advance any test pits within the stockpile.
- Stockpile No. 3: Tighe & Bond reported that this stockpile consisted of urban fill materials and was 25 feet high, 140 feet long, and 70 feet wide. Tighe & Bond did not advance any test pits within the stockpile.

The results of Tighe & Bond's Phase II LSI are summarized below.

Former UST Areas

Tighe & Bond advanced seven soil borings up to 20 feet bgs throughout the area formerly occupied by USTs. Reportedly, visual/olfactory evidence of a release was not identified, and as such, soil samples were not collected. The report does not indicate whether a photoionization detector (PID) was used to screen for total volatile organic compounds (TVOCs). Additionally, a groundwater sample was collected from existing monitoring well MW-3 (designated as Downgradient-1 by Tighe & Bond) and analyzed for EPH with PAHs, VPH, and VOCs. Tighe & Bond reported that the analyses did not detect analyte concentrations exceeding the applicable 2012 MCP RCGW-1 Reportable Concentrations; however, tabulated data or the laboratory analytical report was not included in the report made available for VERTEX's review. The location of monitoring well MW-3 is shown on Figure 2 – Site Schematic.

Firing Range

Using an XRF meter, Tighe & Bond screened the firing range area to determine the magnitude of lead concentrations in the shallow soils. Tighe & Bond reported elevated lead concentrations in most the firing range at depths up to two feet. Tighe & Bond estimated approximately 450 cubic yards of lead-impacted soil existed within this area of the site. The report indicates that the material in this area will require future management under the MCP.

Soil Vapor

Tighe & Bond installed three soil-vapor monitoring points to evaluate the potential migration of landfill gasses from the abutting Sudbury Landfill. Based on the report, flammable gases were detected at concentrations exceeding the 25% LEL in soil vapor sampled from the firing range. Flammable gases were not detected in soil-vapor screened from two soil-vapor monitoring points installed within the former wastewater treatment plant area. Tighe & Bond assumed the source of the elevated flammable gas readings was the abutting Sudbury Landfill due to evidence of historically high detections in soil-vapor samples collected from the border of the landfill abutting the site. The report also recommended that if the area were to be developed, "preventative protections to new structures" be constructed.

Soil Stockpiles

At the time of the report, Tighe & Bond indicated that there were three stockpiles on site: Stockpile No. 1 containing unprocessed soils and urban fill materials, and Stockpiles No. 2 and No. 3 containing processed materials. Based on VERTEX's site visit, Stockpile No. 3 is no longer located at the site.

To investigate Stockpile No. 1, Tighe & Bond reportedly completed test-pits within Stockpile No. 1 to depths up to 5 feet. The report indicates that urban fill materials such as asphalt, asphaltic piping, brick, metal, concrete, glass, and wood were identified in the test pits in addition to railroad ties and three sections of asbestos transite pipe. Based on the presence of asbestos piping, Tighe & Bond recommended careful monitoring during the management of the stockpile, and notification of the MassDEP if additional asbestos materials are identified.

Former Wayland-Sudbury Septage Facility Groundwater Summary Memorandum – August 2015 Sampling Event, prepared by Tighe & Bond for The Town of Wayland, dated September 2, 2015.

The memorandum indicates Tighe & Bond collected groundwater samples from one on-site monitoring well (MW-3) and four off-site monitoring wells (MW-2, MW-4, MW-5, and D-3) and submitted the groundwater for laboratory analysis of MCP-14 total metals and manganese. The report indicated that arsenic was detected at concentrations exceeding the MCP RCGW-1 Reportable Concentrations in the two monitoring wells located off-site between the Sudbury Landfill and the site (MW-2 and D-3). VERTEX notes that MCP RCGW-1 Reportable Concentrations are not applicable to measured concentrations of total metals within groundwater. The memorandum attributed the exceedances to the Sudbury Landfill, and concluded they were therefore regulated under the Solid Waste Permitting Program and did not constitute a reporting condition. Additionally, manganese was detected above the Massachusetts Drinking Water Standards Secondary Maximum Contaminant Level Standard (SMCL), which was used for comparison as an RCGW-1 Reportable Concentration does not exist for manganese.

The memorandum also included historical Monthly Maximum Data Reports (MDRs) for the former wastewater treatment plant. The MDRs include historical groundwater analytical data collected from two on-site monitoring wells (MW-3 and MW-1 - which has since been destroyed) in addition to two off-site upgradient monitoring wells (D-3 and MW-2) and two off-site downgradient monitoring wells (MW-4 and MW-5). The tabulated analytical data includes monthly maximum concentrations from January 2008 through December 2009 for pH, biological oxygen demand (BOD), total suspended solids (TSS), total solids, ammonia, nitrate, total nitrogen, oil and grease, chlorine, fecal coliform, chloride, specific conductance, lead, manganese and mercury. Based on the tabulated data, various analytes were detected above the laboratory detection limit including ammonia, mercury, and manganese. Ammonia was only sampled from an unknown location designated as 'influent' at concentrations between 16,000 and 74,000 micrograms per liter (µg/l). Mercury was detected in each of the six wells sampled in March 2008 at concentrations varying from 180 to 8,650 µg/l; however, it was not detected above the laboratory detection limit in other months in 2008 and 2009. Manganese was detected at

concentrations between 80 µg/l and 12,200 µg/l between 2008 and 2009. A copy of the MDRs are included in Appendix D.

Based on the RECs identified by Tighe & Bond during their 2012 Phase I ESA and Phase II LSI, and the results of the supplemental 2015 groundwater analyses, VERTEX identified the former UST area, firing range, soil vapor, soil stockpiles, and on-site groundwater as RECS warranting investigation. The investigation and results of VERTEX's Phase II LSI are discussed further in Sections 8.0 and 9.0.

5.4 Prior Ownership

VERTEX reviewed records provided by the South Middlesex County Registry of Deeds. The site is currently owned by The Town of Wayland. Prior ownership records were reviewed online from the South Middlesex County Registry of Deeds. The available chain of title for the site is summarized below.

DEED RECORDS REVIEW – 484 - 490 BOSTON POST ROAD			
GRANTOR	**GRANTEE**	**BOOK/PAGE**	**DATE**
Mary and William Lord	Town of Wayland	13443/177 13448/394	04/11/1978 5/25/1978
Boston Edison Co	Mary and William Lord	10225/372	03/01/1963
Donald and Constance Neelon	Boston Edison Co	9763/512	02/23/1961

No evidence of prior owners of environmental concern was identified in the deed records reviewed. Additionally, no environmental liens or AULs were noted through review of ownership records. Prior owners of the site were not available to be interviewed.

5.5 City Directories

VERTEX reviewed historical city directory information for the site and adjoining properties as provided by EDR. Copies of select city directories are included in Appendix E. A summary of listings is presented below.

CITY DIRECTORY REVIEW			
YEAR	**SUMMARY (ON-SITE)**	**SUMMARY (OFF-SITE)**	**CONCERNS**
1984	Boston Post Road (No Number): Wayland-Sudbury Septic Facilities; Wayland Town Dump, Wayland Town Office Dump	430 Boston Post Road: Raytheon Company 533 Boston Post Road: Hub Precision Products; McIntire Brass Work 534 Boston Post Road: Dasibi Environmental Corp. No # Boston Post Road: U.S. Gov. Defense Audit Agency	None; See Below
1988	Boston Post Road (No Number): Wayland-Sudbury Septic Facilities; Wayland Town Dump, Wayland Town Office Dump	430 Boston Post Road: Raytheon Company 526 Boston Post Road: Alan Chapman Communications; Impress Design and Topography Inc.; Laguna Industries; Tmp Services Co. 530 Boston Post Road: Candela Laser Corp. 533 Boston Post Road: Hub Precision Products; McIntire Brass Work 534 Boston Post Road: Moduspec Company	None; See Below
1992	Not Listed.	430 Boston Post Road: Raytheon Company 522 Boston Post Road: Richey and Clapper Inc.; Waters Manufacturing Inc. 524 Boston Post Road: Longfellow Health Center; Sudbury Chiropractic Office 526 Boston Post Road: Alan Chapman Communications; Candela Laser Corp.; Cymer; Impress Design and Topography Inc.; Kolmar Technologies; Tmp Services Co.	None; See Below
1995	Not Listed.	430 Boston Post Road: Raytheon Company 522 Boston Post Road: Electro Freeto Manufacturing Co. Inc.; Logan Products 524 Boston Post Road: The Longfellow Club; Longfellow Health Center Inc.; Sudbury Chiropractic Office 526 Boston Post Road: Adtech Systems; Alan Chapman Communications; Alternate Solutions; Candela Laser Corp.; Eximer Laser Systems; The Hamblin Group; Impress Design and Topography Inc.; Iso 9000 Network; J.E. Robison Sales; Portable Clean Rooms Inc.; Tmp Services Co. 534 Boston Post Road: Seavey Inc.	None; See Below

CITY DIRECTORY REVIEW			
YEAR	**SUMMARY (ON-SITE)**	**SUMMARY (OFF-SITE)**	**CONCERNS**
1999	490 Boston Post Road: Methuen Construction Company Manufacturers Agency	522 Boston Post Road: Adtech Systens; Electro Freeto Manufacturing Co. Inc.; Giorgio Robert Sudbury School of Taekwondo; Longfellow Children's Center 524 Boston Post Road: The Longfellow Club; Longfellow Health Center Inc. 526 Boston Post Road: Adtech Systems; Alan Chapman Communications; Alternate Solutions; American Writers Review; Automotive Profit Builders Co. Inc.; Blue Dolphin Communications; Care Computer Systems Inc.; Editor and Writer; Education Network Inc.; EH Publishing Inc.; Excimer Laser Systems; The Hamblin Group; Impress Design and Topography Inc.; Internet Voyager; Iso 9000 Network; J.E. Robison Sales; Lasertone Corp.; National Dentex Corp.; Portable Clean Rooms Inc.; Razcal Corp.; Subscription Marketing; Technical Support Services Inc.; Tmp Services Co.; UV Technology Systems; Writing for Money 530 Boston Post Road: Candela Laser Corp. 533 Boston Post Road: Hatch and Sons Automotive Inc. 534 Boston Post Road: Seavey Inc.	None
2003	Not Listed.	400 Boston Post Road: Bus Wayland 426 Boston Post Road: Janice Carlson 430 Boston Post Road: Moldflow Corp.; Woodard and Curran Inc. 432 Boston Post Road: Sound Vision Inc. 522 Boston Post Road: Adtech 524 Boston Post Road: Holistic Health Management Inc.; Kenneth Hazirjian; Laurence Hammel; The Longfellow Club; Longfellow Health Center; Sudbury Racquet Club Inc. 526 Boston Post Road: 526 BPR East; Alternate Solutions; Computer Revivals Inc.; David Elliott; David Watkins; Electronic House; Eximer Laser Systems; Iso 9000 Network; Softscape Inc.; UV Technology Systems Inc. 530 Boston Post Road: Candela Skin Care Centers Inc.; Occupant Unknown 533 Boston Post Road: Occupant Unknown 534 Boston Post Road: Richard Wilson	None

CITY DIRECTORY REVIEW			
YEAR	**SUMMARY (ON-SITE)**	**SUMMARY (OFF-SITE)**	**CONCERNS**
2008	Not Listed.	508 Boston Post Road: EH Publishing 522 Boston Post Road: Adtech; Loan Fellow Children Center; Logan Products Co. 524 Boston Post Road: Longfellow Health Center; Sudbury Racquet Club Inc.; Tennis Pro Shop Inc. 526 Boston Post Road: Alternative Solutions; The Education Network Inc.; Show Me the Food Co.; Softscape Inc. 530 Boston Post Road: Candela Laser Corp. 533 Boston Post Road: Bentley Boston; Foreign Motors West Inc.; Herb Chambers of Wayland Inc.; Heritage Motor Works	None
2013	490 Boston Post Road: First Student	430 Boston Post Road: Aquarion Operating Services 522 Boston Post Road: Lumina at Longfellow; Zip Zone at Longfellow 524 Boston Post Road: The Longfellow Club; Longfellow Health Center 526 Boston Post Road: A13 Architects; National Dentex Corp.; Softscape 530 Boston Post Road: Candela Corp. 533 Boston Post Road: Bentley of Boston; Heritage Motor Works; Lamborghini of Boston; Rolls Royce Motor Cars of New England	None

Available city directories indicate that the Wayland Town Dump was located at the site address in 1984 and 1988. Based on available information, the Wayland Town Dump is located 1,000 feet northwest of the site but maintains the address 484 Boston Post Road; therefore, based on distance and direction, this city directory listing is not considered to be an environmental concern.

Available city directories list Raytheon Company (Raytheon) at 430 Boston Post Road, approximately 2,700 feet east of the site. The property is associated with various RTNs; however, based on the distance and apparent hydraulic gradient, the property is not considered an environmental concern to the site.

5.6 Aerial Photography

VERTEX reviewed aerial photographs including the Site and adjoining properties. Copies of the aerial photographs are included in Appendix F. A summary of information obtained from the review is provided in the table below.

AERIAL PHOTOGRAPHY REVIEW			
YEAR	**SUMMARY (ON-SITE)**	**SUMMARY (OFF-SITE)**	**CONCERNS**
1952	The site is depicted as undeveloped land. A portion of the site appears cleared.	The site is bordered to the south by Boston Post Road, beyond which is undeveloped forested land followed by a railroad. The site is bordered to the north and east by undeveloped forested land. Directly west of the site appears to be developed with a gravel quarry.	None
1957 1963 1969	The site has been cleared but appears undeveloped.	Surrounding site properties appear similar to the 1952 aerial photograph; however, evidence of the old Wayland Landfill appears south of the site beyond Boston Post Road.	None; See Below
1970 1978	The site appears similar to the 1969 photograph.	The property west of the site appears to have been converted to the Sudbury Landfill. Additional land has been cleared in conjunction with the old Wayland Landfill directly south of the site, beyond Boston Post Road. The north and east abutting properties appear similar to the 1969 aerial photograph.	See Below
1980	A portion of the site appears to have been cleared and possibly used to stockpile materials.	Surrounding properties appear similar to the 1978 aerial photograph; however, a north/south oriented road appears directly abutting the site to the east and the old Wayland Landfill appears to be capped.	See Below
1985 1995	The conditions at the site appear similar to its current condition, including stockpiles of various sizes throughout the eastern portion of the site.	Surrounding properties appear similar to the 1980 aerial photograph.	See Below
2006 2008 2010 2012	The conditions at the site appear similar to its current condition.	The Sudbury Landfill directly west of the site appears to have been capped and no longer used as a landfill. South of the site, beyond Boston Post Road, appears to be forested land. The remaining abutting properties appear similar to the 1995 aerial photograph.	None

Based on available historical documentation, the old Wayland Landfill appears to have been located south of the site (beyond Boston Post Road) from approximately 1957 until 1980;

however, based on the apparent hydraulic gradient, the old Wayland Landfill is considered downgradient to the site and not anticipated to be an environmental concern.

Based on available historical documentation, the Sudbury Landfill was developed west of the site in approximately 1970 and remained operational until 1996. According to available documentation, the landfill is lined, and has since been capped. However, based on the recording of flammable gas concentrations above 10% of the LEL and elevated concentrations of dissolved arsenic in groundwater along the perimeter of the Sudbury Landfill, VERTEX identified both the potential soil vapor intrusion and groundwater impact from the Sudbury Landfill at the site RECs warranting addition investigation during the Phase II LSI. The results of the Phase II LSI are discussed further in Sections 8.0 and 9.0.

5.7 Topographic Maps

VERTEX reviewed historical topographic maps including the site and surrounding areas. Copies of the topographic maps are included in Appendix G. A summary of information obtained from the review is provided in the table below.

TOPOGRAPHIC MAP REVIEW			
YEAR	**SUMMARY (ON-SITE)**	**SUMMARY (OFF-SITE)**	**CONCERNS**
1894	The site is depicted as undeveloped land and wetlands.	Boston Post Road is depicted south of the site, beyond which is a railroad.	None
1915 1918	A road is depicted bisecting the site from southwest to northeast. The remainder of the site appears undeveloped.	Surrounding properties appear similar to the 1894 topographic map; however, two small structures are depicted northeast of the site.	None
1943 1950	The site is depicted as undeveloped land.	The surrounding areas appear similar to the 1894 topographic map.	None
1958	The site is not depicted.	The surrounding areas are not depicted.	None
1965	The site is depicted as cleared undeveloped land.	The western abutting property is labelled as a gravel pit. Other remaining properties appear undeveloped.	
1970	The site is not depicted.	The surrounding areas are not depicted.	None
1979	The site appears similar to the 1965 topographic map.	Surrounding properties appear similar to the 1965 topographic map.	None
1987	A small structure appears in the southeastern corner of the site. The remainder of the site appears undeveloped.	Surrounding properties appear similar to the 1979 topographic map.	None

TOPOGRAPHIC MAP REVIEW			
YEAR	**SUMMARY (ON-SITE)**	**SUMMARY (OFF-SITE)**	**CONCERNS**
2012	The 2012 topographic map does not depict structures.	The 2012 topographic map does not depict structures. A roadway is depicted to the east of the site.	None

The review of historical topographic maps did not identify specific concerns or RECs; however, it should be noted that the Sudbury Landfill east of the site which was operational between 1970 and 1996 is depicted as a 'Gravel Pit' up to 1987.

5.8 Sanborn Fire Insurance Maps

VERTEX requested available Sanborn Fire Insurance (Sanborn) Maps for the site and surrounding areas. Sanborn Maps were not available.

6.0 REGULATORY RECORDS REVIEW

VERTEX obtained a regulatory database report as specified in Section 13.0. Review of databases and files from federal, state, and local environmental regulatory agencies was used to identify use, generation, storage, treatment, or disposal of hazardous materials and chemicals, or release incidents of such materials that might have impacted the site. The databases discussed in the following sections address ASTM Phase I ESA requirements. Additional federal and state databases may have also been reviewed, and if so, are listed in the table below. A copy of the database report is included in Appendix I.

A summary of the database information is provided in the following table.

REGULATORY DATABASE SUMMARY			
DATABASE	**ASTM RADIUS**	**TARGET PROPERTY**	**SURROUNDING FACILITIES**
National Priorities List (NPL)/Proposed NPL/De-listed NPL	1 Mile	-	0
Superfund Enterprise Management System (SEMS)	½ Mile	-	1
SEMS Archive/CERCLIS No Further Remedial Action Planned (CERC-NFRAP) Sites	½ Mile	-	1
Corrective Action Report (CORRACTS)	1 Mile	-	0
Resource Conservation and Recovery Act Treatment, Storage, and Disposal Facilities (RCRA-TSDF)	½ Mile	-	0
RCRA Hazardous Waste Generators	¼ Mile	-	0
RCRA Former Hazardous Waste Generators/No Longer Regulated Sites (RCRA NonGen/NLR)	¼ Mile	X	0
Facility Index System (FINDS)	Target Property	X	-
Emergency Response Notification System (ERNS)	Target Property	-	-
Federal Institutional Controls/Engineering Controls	½ Mile	-	0
Land Use Control Information System Sites (LUCIS)	½ Mile	-	0
State Hazardous Waste Sites (SHWS)	1 Mile	X	22
Solid Waste Facilities/Landfills (SWF/LF)	½ Mile	X	2
Open Dump Inventory (ODI)	½ Mile	X	0
Voluntary Cleanup Program (VCP)	½ Mile	-	0

REGULATORY DATABASE SUMMARY			
DATABASE	**ASTM RADIUS**	**TARGET PROPERTY**	**SURROUNDING FACILITIES**
Leaking Underground Storage Tank (LUST)	½ Mile	-	2
Leaking Aboveground Storage Tank (LAST)	½ Mile	-	2
Underground Storage Tank (UST)	¼ Mile	-	0
Aboveground Storage Tank (AST)	¼ Mile	-	0
Release	Target Property	X	-
Massachusetts Hazardous Waste Generators (HW GEN)	¼ Mile	X	0
DRYCLEANERS	¼ Mile	-	0
State Institutional Controls/Engineering Controls	½ Mile	-	1
Brownfield Sites	½ Mile	-	0
Asbestos	Target Property	X	-
EDR Historical Auto Stations	1/8 Mile	-	0
EDR Historical Cleaners	1/8 Mile	-	0
RI Manifest	¼ Mile	X	0
RGA HWS	Target Property	X	-
RGA LUST	Target Property	-	-

The EDR database report includes an orphan summary. This summary identifies facilities that are listed on one of the above-referenced databases or lists but do not include complete or accurate geographic data. Consequently, EDR was unable to map the facilities in relation to the site. VERTEX reviewed the orphan summary prior to inspecting the site and surrounding properties. Orphan properties located within ASTM search distances of the site (if any) were incorporated into VERTEX's review.

6.1 On-Site Listings

The address 484 Boston Post Road, Wayland, Massachusetts is listed on various databases including the RCRA NonGen/NLR, FINDS, ECHO, LF, and ODI databases. However, based on a

review of available information, these listings are associated with the Wayland Transfer Station. The site is also listed on the RI Manifest, HW GEN, SHWS, Release, RGA HWS, and Asbestos databases, discussed further below.

According to readily available historical information, the site is listed on the HW GEN database as a Very Small Quantity Generator (VSQG) under USEPA ID MAR000015388 due to the transportation of various quantities of oil under RI Manifests between 2004 and 2006. Additional information was not available as to whether these listings were associated with the site or the Wayland Transfer Station; however, based on the available information, these listings do not represent an environmental concern.

The site is listed on the SHWS, Release, RGA HWS, and Asbestos databases associated with RTNs 3-001724, 3-24698, 3-27741, and 3-34474. Additional information regarding the RTNs are summarized below:

RTN 3-001724

This RTN, listed on the SHWS and Release databases as 'Septage Facility' was assigned to the site in 1987 following the discharge of an estimated 3-gallons unknown oil "ostensibly from a restaurant grease trap" into the wastewater plant's receiving tanks. Based on available documentation, the plant operator identified this wrongful discharge during the unloading of the proceeding truck and shut down valves isolating the discharged material to 'Raw Well' and restricting pathways that would have resulted in a release to the environment. The oil was subsequently removed under Hazardous Waste Manifest documentation, and a sample was collected submitted for laboratory analysis of polychlorinated biphenyls (PCBs). PCBs were not detected above the laboratory detection limit.

The release was subsequently assigned RTN 3-001724; however, after additional investigations by the MassDEP in 1993, based on available documentation, the MassDEP determined the site was no longer considered a 'Disposal Site' under the MCP and classified DEPNDS (MassDEP Not a Disposal Site). Based on the closure of the RTN, this release is not considered an environmental concern.

RTN 3-24698

This RTN, listed on the SHWS database, is associated with a release of 10-gallons of motor oil at the Wayland Transfer Station in 2005, which was closed with a Class A1 Response Action Outcome (RAO). Since this RTN is associated with the Wayland Transfer Site and has since been closed under the MCP, RTN 3-24698 does not represent an environmental concern to the site.

RTN 3-27741

This RTN, listed on the SHWS and Release database, is associated with a release of diesel fuel from a vehicle at the Wayland Transfer Station in 2008, which was closed with a Class A2 RAO. Since this RTN is associated with the Wayland Transfer Site and has since been closed under the Massachusetts Contingency Plan (MCP), RTN 3-27741 does not represent an environmental concern to the site.

RTN 3-34474

RTN 3-34474, listed on both the SHWS and Asbestos database, is associated with the discovery of asbestos at the site in August 2017 during VERTEX due-diligence activities. On August 8, 2017, during regrading of the large stockpile to enable it to be sampled for characterization analyses, VERTEX identified various suspect asbestos containing waste materials (ACWM) including potential transite pipe and floor tiles, all located within a small area of the stockpile. Six samples were collected from the suspect material and submitted for polarized light microscopy (PLM) analysis.

Based on the analytical results, five of the six samples contained greater than 1% asbestos. On August 14, 2017, following discussions between VERTEX, the Town of Wayland and their consultant (CMG Environmental Services, Inc.), and Mr. Peter Seward of the MassDEP Bureau of Air and Waste, it was determined that greater than 1 pound of asbestos was present at the site, triggering a 2-hour reportable condition under the MCP. The Town of Wayland notified the MassDEP of the release, and the release was subsequently assigned RTN 3-34474.

In July 2018, VERTEX observed the advancement of test pits to determine the potential presence of additional ACWM within ungraded portions of the stockpile. Soil from each test pit was visually assessed by a licensed asbestos inspector who collected samples of suspect ACWMs and composite soil samples for asbestos analysis by PLM. Additional ACWM was identified in one test pit; however, asbestos was not detected in any soil samples.

Based on the assessment activities, VERTEX delineated the area of the stockpile impacted with ACWM. In December 2018, following MassDEP approval of a Non-Traditional Asbestos Work Plan (NTAWP), VERTEX oversaw the excavation and off-site transport of approximately 2,000 cubic-yards of commingled soil and ACWM.

According to a review of available environmental reports on the MassDEP Searchable Sites database, RTN 3-34474 is currently a Tier I Classified Disposal Site. However, according to the December 14, 2018 Immediate Response Action (IRA) Status Report #3 prepared by CMG Environmental Services, Inc., the Town of Wayland intended to keep the RTN open until VERTEX completed the characterization of the soil stockpile. Based on VERTEX's Phase II LSI investigations of the soil stockpile (discussed further in Sections 8.2.3 and 9.2), characterization of the stockpile is complete and VERTEX recommends the Town of Wayland submit an IRA Completion Report and a Permanent Solution Statement in accordance with the MCP to close RTN 3-34474.

Based on the successful remediation of the delineated ACWM impacted area and the results of additional asbestos soil samples collected during Phase II LSI activities (see Sections 8.2.3 and 9.2), the ACWM is considered an HREC to the site.

6.2 Off-Site Listings

A review of state and federal regulatory records revealed several facilities within ASTM-specified search radii of the site. Of these facilities, one was located within 500 feet of the site and is summarized below. The remaining database listings, including those attributed to the Wayland Transfer Station described in Section 6.1, are not considered an environmental concern to the site based on distance, regulatory status, and/or apparent groundwater gradient and are not further discussed.

The former Sudbury Landfill and current Town of Sudbury Transfer Station abuts the western boundary of the site. The landfill is listed on various databases and appears to have operated between 1970 and 1996. Based on available documentation, the landfill was lined and classified for municipal solid waste. The landfill was then capped in 2005, but environmental monitoring appears to be continuously required as per 310 CMR 19.000. According to the MassDEP Online Searchable Sites Database, several RTNs are associated with the landfill, including:

RTN 3-17083

In July 1998, a release of 100-gallons of diesel from an above ground storage tank (AST) was reported to the MassDEP. The MassDEP subsequently assigned the release RTN 3-17083. Based on available documents, oil identified on the surface was removed using a vacuum truck and absorbent pads on the same day the release was identified, the AST was removed from the property, and impacted soil underlying the AST was hand excavated. Additional impacted-material was excavated between September and December 1998, and confirmatory samples were collected and analyzed for EPH and VPH. The RTN was closed with a Class A2 RAO in 1999. Based on regulatory closure, this RTN does not represent an environmental concern to the site.

RTNs 3-23624, 3-29909, 3-33503, and 3-34148

In accordance with 310 CMR 19.000, quarterly perimeter landfill gas sampling is required at the closed landfill. Various RTNs (3-23624, 3-29909, 3-33503, and 3-34148) have been assigned to the landfill between 2003 and 2017 due to the detection of methane concentrations exceeding 10% of the LEL. The elevated concentrations have been measured in both utility manholes and a fire hydrant. According to available reports, due to the repeated detections of high methane concentrations, a passive landfill venting system was installed in 2007. Based on the historical data, the passive system assisted in reducing the concentrations of methane gas in one utility manhole; however, it appears that methane concentrations persist throughout the landfill area. Based on the proximity of the landfill to the site, and the continued elevated readings of methane concentrations above 10% of the LEL, VERTEX considered the potential for methane intrusion as

a concern warranting additional investigation during the Phase II LSI. Additional discussion regarding the investigation and results is included in Sections 8.7 and 9.6.

6.3 Additional Environmental Record Sources

VERTEX contacted local agencies to request information relevant to the Site and vicinity. A summary of the agencies contacted, and the information obtained is included in the following table.

LOCAL RESEARCH SUMMARY		
OFFICE	**INFORMATION OBTAINED**	**CONCERNS**
Wayland Assessor's Office	VERTEX obtained property assessment records.	None
Wayland Town Clerk	No relevant material was identified.	None
Wayland Fire Department	According to information obtained from the Wayland Fire Department, Applications and Permits for the removal of one 4,000-gallon No. 2 fuel-oil UST, one 1,000-gallon diesel generator fuel UST, one 1,000-gallon propane heating UST, and two 2,000-gallon ferric-chloride USTs in 1998 were on-file for the site. A chemical inventory was also on file listing the chemicals and volumes of each stored at the site. A date was not available on the inventory; however, the paperwork appears to be directed from the Plant Supervisor, suggesting it is from when the wastewater treatment plant was operational.	See Below
Wayland Health Department	No relevant material was identified.	None
Wayland Conservation Commission	No relevant material was identified.	None
Wayland DPW	VERTEX reviewed engineering drawings of the wastewater treatment plant.	None
Sudbury DPW	VERTEX requested files pertaining to the Sudbury Landfill. VERTEX was informed none were kept in the building, but to request from Mr. Daniel Nason (Director of Sudbury Public Works). At the time of the report, VERTEX had not received a reply.	None
South Middlesex County Registry of Deeds	Deed information. See Section 5.4.	None
MassDEP	VERTEX reviewed information pertaining to the site available online from the MassDEP.	None; See Sections 6.1 and 6.2

Based on the lack of soil analytical data collected during the removal of the six site USTs, VERTEX identified the former USTs as a REC warranting additional investigation during the Phase II LSI. The results of the Phase II LSI investigation of the former USTs is included in Section 11.1.

Copies of relevant documents reviewed from local agencies are included in Appendix D.

7.0 SITE RECONNAISSANCE

A Site visit was conducted by VERTEX representative Kristen Sarson, Project Manager, between 7:30 a.m. and 2:00 p.m. on April 11, 2019. Mr. Paul Brinkman, Wayland Town Engineer, escorted VERTEX during the site visit and answered questions regarding site operations.

During the initial site visit, the weather was sunny and approximately 35o Fahrenheit. The site visit consisted of a walk-through of the site and visual reconnaissance of neighboring properties from curbside. Photographic documentation of the site visit is provided in Appendix A.

7.1 Access Restrictions

VERTEX visually and physically observed accessible areas of the site. The exteriors of site building and wastewater treatment structures were observed. The majority of the interior of the building was observed; however, due to large volumes of furniture and miscellaneous items, complete visual reconnaissance was not achieved. VERTEX was unable to access the roof of the site or the interior of the wastewater treatment structures. No other limitations imposed by physical obstructions or other limiting conditions were observed.

7.2 Site Observations

Observations of site conditions were made during the site reconnaissance and are summarized in the table below.

SITE OBSERVATIONS		
DESCRIPTION	**REPORTED/ OBSERVED ON-SITE Y/N**	**COMMENTS**
Hazardous Substances and Petroleum Products	Y	VERTEX observed various quantities of chemicals, oils, and various cleaning chemicals throughout the site. See Section 2.3 for additional information.
UST(s)	N	VERTEX did not observe fill pipes, vent pipes or other evidence of UST(s).
AST(s)	N	VERTEX did not observe evidence of AST(s).
Strong, Pungent, or Noxious Odors	N	Not identified during the site visit.
Pools of Liquid	N	Not identified during the site visit.
Drums	Y	See Section 2.3.

SITE OBSERVATIONS		
DESCRIPTION	**REPORTED/ OBSERVED ON-SITE Y/N**	**COMMENTS**
Unidentified Substance Containers	Y	Various unlabeled containers of laboratory chemicals were identified within the laboratory area of the site building. See Section 2.3 for additional information.
Polychlorinated Biphenyls (PCB)-containing Equipment	Y	A pad-mounted transformer was observed abutting the southwestern corner of the site building. The transformer was not labeled, and the age of the transformer was not readily apparent. VERTEX did not observe evidence of leaks or staining on or around the transformer.
Utilities (Electricity/ Natural Gas)	Y	Electricity – supplied by Eversource Natural gas – supplied by Eversource
Hydraulic Equipment	Y	Two vehicle scales are in the garage area of the site building. The site contact was unaware as to whether the scales were hydraulic.
Water Supply	Y	Water is supplied to the site by the Town of Wayland. The building was connected upon initial construction in 1983. Concerns were not identified.
Wells	Y	One monitoring well was observed southwest of the hazardous materials storage trailer. Additional monitoring wells were observed off-site along both the western and eastern boundaries of the site associated with the Sudbury Landfill.
Wastewater	Y	Operational restrooms on the site are located within the office trailer; and wastewater is removed by an outside company. Concerns were not identified.
Septic	N	Evidence of present or historical septic systems were not identified during the site visit.
Storm Water	Y	Storm water within the western portion of the site is collected in storm drains located in the parking areas, which reportedly discharge to the municipal drain. Evidence of staining or a release was not observed in the vicinity of the storm drains; as such, no concerns were noted.
Flood Plain	N	According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), the site is not located within a 100- or 500-year flood zone.
Pits, Ponds, Lagoons	Y	Three wastewater infiltration beds associated with the former use of the site as a wastewater treatment plant are located along the western boundary of the site. Based on the historical use of these as a discharge point, VERTEX collected and analyzed soil samples from the infiltration beds, discussed further in Sections 8.4 and 9.4. Based on the soil sample analyses, the wastewater infiltration beds are not considered an environmental concern.
Stained Soil, Stained Pavement, Corrosion to Pavement	N	None observed.
Stressed Vegetation	N	None observed.

SITE OBSERVATIONS		
DESCRIPTION	**REPORTED/ OBSERVED ON-SITE Y/N**	**COMMENTS**
Solid Waste	Y	Approximately 32,000 cubic yards of material generated during DPW maintenance projects is stored on the eastern portion of the site. Additional waste included on-site includes concrete debris and concrete jersey barriers.
Hazardous Waste Management	N	None.
Heating/Cooling	Y	The site building is heated and cooled via natural gas or electric HVAC units.
Drains, Sumps, Oil/Water Separators/Sand Traps	Y	Trench drains were observed within the garage area of the building, and the basement of the building. According to available plans, the trench drains were directed to a deep sump drain. Evidence of staining or a release was not observed near the drains; as such, no concerns were noted.
Vapor Intrusion	Y	As part of this assessment, VERTEX assessed the potential for impacts to the site from potential on- and off-site sources of vapor intrusion. The potential for impacts from off-site properties included a review of current off-site operations (see Section 6.2), a review of historical operations (see Section 6.1), and a review of regulatory database records (see Section 7.2). The abutting Sudbury Landfill represents a potential source of methane intrusion.

To investigate these observations and other suspect conditions, VERTEX conducted an LSI discussed in the next sections.

8.0 PHASE II LIMITED SUBSURFACE INVESTIGATION

In accordance with VERTEX March 6, 2017 proposal P.0453.17 and December 18, 2018 proposal P.3400.18, VERTEX conducted a Phase II LSI and soil characterization of the 32,000 cubic-yard stockpile for disposal at the site to assess the RECs identified during the Phase I ESA.

8.1 Utility Locate/Geophysical Survey

Prior to the start of Phase II LSI activities at the site, the Massachusetts Dig Safe call center was contacted for public utility location services at the site. In addition, prior to the advancement of soil borings and monitoring well installations, Ground Penetrating Radar Systems, LLC. (GPRS) of Toledo, Ohio was contracted to provide private utility location services for the Site.

On March 26, 2019, VERTEX oversaw a ground-penetrating radar (GPR) and electromagnetic (EM) survey conducted by GPRS to identify potential underground utilities at proposed boring locations.

The purpose of the geophysical investigation was also to identify potential subsurface anomalies within the approximate area of the former USTs such as remaining USTs, associated piping, and/or former UST graves. The geophysical investigation identified various subsurface utilities, both active and abandoned, throughout the exterior areas of the water treatment plant. No other subsurface anomalies were identified at the site during the geophysical survey.

8.2 32,000 Cubic-Yard Soil Stockpile Characterization

8.2.1 Stockpile Grading

To assist with the characterization of the existing 32,000 cubic-yard stockpile, between February 19 and February 26, 2019, the stockpile was graded to an approximate depth of 10 feet prior to the collection of samples for laboratory analysis. Grading was completed by the Greener Group LLC. (Greener) of Lowell, Massachusetts under the oversight of VERTEX. VERTEX's oversight included inspecting the material during grading activities for potential ACWM and other environmental concerns. On February 25, 2019, VERTEX observed a fractured piece of potential

transite pipe in an area of the pile where grading had been completed. The potential ACWM was kept in place and surrounded with warning tape pending observation by a Massachusetts-licensed asbestos inspector (see Section 8.2.3 for additional information regarding the potential ACWM).

Following completion of the grading activities, the graded stockpile was surveyed and gridded into 50-foot by 50-foot grids by Allen & Major Associates, Inc. (Allen & Major). Based on the 10-foot depth of the pile, each grid represented 25,000 cubic feet, or approximately 925 cubic yards of material. An approximate layout of the grid is depicted on Figure 3.

8.2.2 Test Pit Advancement

Between March 1 and March 12, 2019, VERTEX oversaw the advancement of 39 test pits within the 32,000 cubic-yard stockpile. The test pits were advanced by Greener using an excavator. The test pits were advanced within the center of each surveyed grid and to the bottom of the graded stockpile, or until native material (light brown well graded fine to coarse sand and gravel) was identified.

Soil samples were collected from 0 to 5 feet bgs and 5 to 10 feet bgs (and from 10 to 15 feet in grids E5 and D3 where the stockpile was thicker than 10 feet). Soil samples were field screened with a PID equipped with a 10.6 electron volt (eV) lamp for the presence of total ionizable organic volatiles (TOVs). The PID was calibrated with a 100 part per million by volume (ppmv) isobutylene gas standard to provide readings of TOVs as benzene equivalents. PID readings are not considered actual TOV concentrations in the soil samples but are useful indicators of relative TOV concentrations between locations. The physical characteristics of the material within each test pit and the PID field screening results are reported on the test pit logs included in Appendix C.

The maximum PID TOV reading was 9.2 ppmv obtained from a soil sample collected from 5 to 10 feet bgs in test pit B3. Elevated concentrations of TOVs were not identified in other test pits. Materials encountered in most the test pits consisted of soil and urban fill including asphalt, concrete, wood, and metal; however, visual or olfactory evidence of impacts (other than roadway debris and material discussed below) were not identified in the soil excavated from the test pits.

During the excavation of test pits F4 and F7, suspect ACWM material was identified. Excavation of both test pits was stopped, and the pits were kept open pending observation by a Massachusetts-licensed asbestos inspector. Additional information regarding these test pits are included in Section 8.2.3.

VERTEX collected one composite soil sample from each five-foot interval of the 39 test pits, totaling 80 total samples including the 10 to 15 feet samples collected from test pits D3 and E5. Based on the volume of soil and the number of samples collected, this equaled approximately one sample for every 400 cubic yards. Soil samples were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of-custody to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts for the following laboratory analyses:

- Volatile organic compounds (VOC) by USEPA Method 8260;
- Semi-VOCs (SVOCs) by USEPA Method 8270;
- TPH by USEPA Method 8100;
- MCP 14 metals by USEPA Method series 6000 and 7000;
- PCBs by USEPA Method 8082 with Soxhlet extraction;
- Ignitability;
- Corrosivity;
- Reactivity (cyanide/sulfide); and
- Specific conductivity.

Additionally, based on the previous identification of ACWM within the pile, each composite sample was collected and transferred under chain-of-custody to Eurofins CEI Labs, Inc. (Eurofins) of Cary, North Carolina for California Air Resources Board (CARB) Method 435 for determining asbestos content in soil.

8.2.3 Potential ACWM Sampling

As discussed above, potential ACWM was identified in various locations during the grading and sampling of the 32,000 cubic-yard stockpile. The potential transite identified during grading activities was located on the surface of grid C3. Potential ACWM identified during test pit activities included a chalky white substance identified from 0 to 5 feet bgs in test pit F4, and potential transite identified from 0 to 5 feet bgs in test pit F7.

On March 1, 2019, a Massachusetts-licensed asbestos inspector collected a sample of the potential ACWM identified in grid C3. Due to the size of the identified suspect material, the entirety of the suspect material was collected for laboratory analysis. The sample was submitted to EMSL Analytical, Inc. (EMSL) of Woburn, Massachusetts for PLM analysis.

On March 5, 2019, a Massachusetts licensed asbestos inspector collected samples of the potential ACWM identified in grids F4 and F7. Each sample was submitted to EMSL for PLM analysis. The remaining suspect material that was not submitted for laboratory analysis was placed on polyethylene sheeting and covered.

8.3 4,500 Cubic Yard Stockpile Characterization

On March 12, 2019, VERTEX oversaw the advancement of five test pits within the 4,500 cubic-yard stockpile, which was reportedly created from screened material from the 32,000 cubic-yard stockpile. The test pits were advanced by Greener using an excavator to depths of 5 feet into the side of the stockpile.

Soil samples from each test pit was field screened for TOVs with a PID equipped with a 10.6 eV lamp. The physical characteristics of the material within each test pit and the PID field screening results are reported on the test pit logs included in Appendix B. PID TOV readings did not exceed 1 ppm in the screened soil samples.

VERTEX collected one composite soil sample from each test pit. Based on the volume of soil and the number of samples collected, this equaled approximately one sample for every 500 cubic

yards. Soil samples were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of-custody to Con-Test for the following laboratory analyses:

- VOC by USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TPH by USEPA Method 8100;
- MCP 14 metals by USEPA Method series 6000 and 7000;
- PCBs by USEPA Method 8082 with Soxhlet extraction;
- Ignitability;
- Corrosivity;
- Reactivity (cyanide/sulfide); and
- Specific conductivity.

8.4 Advancement of Soil Borings and Installation of Groundwater Monitoring Wells

Between March 26 and March 28, 2019, VERTEX oversaw the advancement of sixteen soil borings to depths between 10 and 37 feet bgs. The borings were advanced by Geosearch, Inc. of Sterling, Massachusetts using direct-push drilling techniques (i.e. Geoprobe). The following table summarizes the locations and depths of each boring, and the REC or environmental condition investigated by the borings. Soil boring locations are shown on Figure 2.

SOIL BORING SUMMARY				
BORING ID	**DEPTH BGS**	**DTW***	**LOCATION**	**AREA OF INVESTIGATION**
V-101	20-feet	13.80	Northeast corner of site	Hydraulically downgradient of the site and Wayland Transfer Station
V-102	20-feet	14.72	Northwest of graded stockpile	Hydraulically downgradient of the old Sudbury Landfill
V-103	35-feet	29.07	East of the hazardous materials storage trailer	The hazardous materials storage trailer
V-104	37-feet	31.21	East of the former USTs	Former site USTs

SOIL BORING SUMMARY				
BORING ID	**DEPTH BGS**	**DTW***	**LOCATION**	**AREA OF INVESTIGATION**
V-105	37-feet	29.94	Northern border of paved parking area	The firing range
V-106	37-feet	27.82	Western border of site	Abutting old Sudbury Landfill
V-107	10-feet	-	West of hazardous materials storage trailer	The hazardous materials storage trailer
V-108	10-feet	-	Northeast corner of site building	Former site USTs
V-109 thru V-111	10-feet	-	North of the site building	Former site USTs
V-112	10-feet	-	East of wastewater settling tank	Former site operations
V-113 & V-114	10-feet	-	Wastewater settling ponds	Former wastewater settling ponds
V-115 & V-116	10-feet	-	East and south of former transformer pads	On-site transformers

*DTW = Depth to groundwater. Measured from the highest point of the polyvinyl chloride (PVC) riser.

Six of the 16 soil borings were completed as permanent groundwater monitoring wells, identified as V-101 (MW), V-102 (MW), V-103 (MW), V-104 (MW), V-105 (MW), and V-106 (MW). The wells were constructed of bottom-plugged 10-foot lengths of 2-inch diameter machine-slotted polyvinyl chloride (PVC) screen followed by PVC riser to grade. The borehole annulus of each well was finished with a clean, uniform-grade silica sand pack, bentonite seal, and native backfill, and the wells were completed at the ground surface with flush-mounted 6-inch diameter road boxes and cement surface seals. Soil boring logs and monitoring well completion reports are included in Appendix C.

Following installation, the monitoring wells were developed using dedicated submersible Proactive Waterspout I pumps capable of pumping a high volume of water at a high flow rate to remove silt and sediment from the well and sand pack.

8.5 Soil Screening and Sampling

Soil samples were collected from the soil borings using tube samples and disposable acetate sleeves in continuous five-foot intervals beginning at grade. Soil samples were screened in the field for the presence of TOVs with a PID equipped with a 10.6 eV lamp. The PID was calibrated

with a 100 ppmv isobutylene gas standard to provide readings of TOVs as benzene equivalents. PID readings are not considered actual TOV concentrations in the soil samples but are useful indicators of relative TOV concentrations between locations. Soil samples were selected for laboratory analysis based on the proposed scope of work, field observations, and field screening results. The physical characteristics of the soil samples and the PID field screening results are reported on the boring logs included in Appendix C.

The highest PID TOV readings were 44.3 ppmv obtained from the soil sample collected from 0 to 5 feet bgs in soil boring V-103 and 46.1 ppmv obtained from the soil sample collected from 0 to 5 feet bgs in soil boring V-104. Elevated concentrations of TOVs were not identified in soil samples collected from the other soil borings. Visual and/or olfactory evidence of impacts were not identified in the soil borings.

VERTEX collected one soil sample from each soil boring V-107 through V-114 from the interval exhibiting the highest PID readings, or if no TOVs were detected by PID, from the interval displaying the most evidence of potential OHM impact (including presence of urban fill materials). Seven soil samples identified as V-107 (5-10'), V-108 (0-5'), V-109 (5-10'), V-110 (5-10'), V-111 (0-10'), V-112 (0-5'), V-113 (0-5'), and V-114 (5-10') were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of custody to Con-Test for the following laboratory analyses:

- VOC USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TPH by USEPA Method 8100;
- MCP 14 metals by USEPA Method series 6000 and 7000;
- PCBs by USEPA Method 8082 with Soxhlet extraction;
- Ignitability;
- Corrosivity;

- Reactivity (cyanide/sulfide); and
- Specific conductivity.

VERTEX also collected one soil sample from each soil boring V-115 through V-116 from the depth interval approximately equal to or slightly below the elevation of the existing transformers at the southwestern corner of the site building. Soil samples V-115 (5-10') and V-116 (0-5') were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of custody to Con-Test for analysis of PCBs by USEPA Method 8082 with Soxhlet extraction.

8.6 Groundwater Sampling

Following development, the monitoring wells were allowed to equilibrate to surrounding aquifer conditions for at least three days prior to sampling. Between April 1 and April 2, 2019, groundwater within the six monitoring wells was gauged using a water-level indicator probe.

Following gauging, groundwater samples were collected from the monitoring wells in general accordance with USEPA low-flow sampling techniques. Wells were purged using dedicated polyethylene tubing and a peristaltic pump. Drawdown of the groundwater in the well and water quality parameters, including temperature, pH, conductivity, dissolved oxygen (D.O.), oxygen reduction potential (ORP), and turbidity, were recorded every 3 to 5 minutes until readings were stable within allowable levels over three consecutive readings. Following stabilization, groundwater samples were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of-custody to Con-Test for the following laboratory analyses following the Town of Wayland recommended parameters:

- VOC USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- Total MCP 14 metals, total manganese, and total copper by USEPA Method series 6000 and 7000;
- PCBs by USEPA Method 8082;

- Ammonia/Nitrogen by USEPA Method SM 19-22;
- Chloride, Nitrite, and Nitrate by USEPA Method 300;
- Total nitrogen by USEPA Method SM 19-22;
- Phosphorus/Orthophosphate by USEPA Method SM 21-22; and
- Dissolved arsenic USEPA Method series 6000 and 7000.

8.7 Exterior Soil Vapor Screening and Sampling

On April 9, 2019, VERTEX screened soil vapor for methane at six exterior locations throughout the site using a four-gas meter. The four-gas meter was calibrated with a methane standard to provide readings of flammable gas readings as methane equivalents. Four-gas meter readings are not considered actual methane concentrations in soil vapor, but are useful indicators of relative methane concentrations. Soil vapor investigation points were advanced using a KVA soil vapor sampling system. The KVA system uses a hammer drill and probe rod to drill a pilot hole, followed the probe system to extend tubing to the desired depth. The KVA soil-vapor tubing was extended to a depth of 5 feet bgs, the bore holes were backfilled with silica sand, and an air tight seal was created at the surface using hydrated bentonite.

Prior to sampling, the tubing was purged using a four-gas meter, and the maximum LEL reading was recorded. After purging, soil-vapor samples were collected using 6-liter (L) batch-certified summa canisters equipped with 30-minute flow regulators. Soil vapor samples were transferred via chain of custody and submitted to Con-Test for analysis of methane via USEPA Method 3C.

Based on the field screening results, flammable gas was detected at concentrations ranging from 1% of the LEL in V-SG-101 to 10% of the LEL in V-SG-106. Carbon monoxide was also detected during the field screening at concentrations ranging from 11 ppmv in V-SG-104 to 120 ppmv in V-SG-106. However, it should be noted that both the methane and carbon monoxide readings were detected almost immediately following the connection of the four-gas meter but dissipated

to 0 ppmv after less than one-minute. Soil vapor screening and sampling locations are shown on Figure 2, and the results of the soil vapor analytical results are presented on Table 4.

8.8 Firing Range Screening, Sampling, and Analysis

On April 11, 2019, to correlate historical data and provide a comparison between analytical data and XRF screening data, VERTEX created an approximate grid across the firing range to assist with the collection of screening data. The grid consisted of approximate 10-foot by 10-foot grids in the area east of the berms, followed by a grid of 10-feet wide by 5-feet high along each of the berms. The approximate grid location and configuration is shown on Figure 4.

VERTEX collected samples from approximately 0 to 2 feet bgs within the center of each grid and combined the sample into a transparent plastic sealable bag. Coarse material was removed from each bag, and the sample was flattened to a thickness of 1 to 2-inches. Each sample was then placed on a plastic table and screened for total lead content using a handheld XRF analyzer. XRF analyzer readings are not considered actual total lead concentrations in the soil samples but are useful indicators of relative lead concentrations between locations. Soil samples were selected for laboratory analysis based on the screening results. The XRF field screening results are included on the Figure 4.

Total lead was identified in screened soil samples at concentrations ranging up to 8,568 parts per million (ppm) in the sample collected from grid J3, with the average concentration throughout the area measuring approximately 1,050 ppm.

VERTEX collected one soil sample from each of six grids where elevated XRF readings were obtained. Soil samples V-201 (collected from K4), V-202 (collected from K1), V-203 (collected from E4), V-204 (collected from N1), V-205 (collected from M3), and V-206 (collected from J3) were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of custody to Con-Test for the following laboratory analyses:

- Lead, Antimony, Copper, and Zinc by USEPA Method 6010;
- Tungsten by USEPA Method Tungsten 200.7; and

- TCLP Lead by USEPA Method 1311 and SW-846.

An additional composite sample was collected from each of the six grids mentioned above, stored on ice, and transferred under chain-of-custody to Con-Test for the following laboratory analyses:

- VOC USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TPH by USEPA Method 8100;
- MCP 14 metals by USEPA Method series 6000 and 7000;
- PCBs by USEPA Method 8082 with Soxhlet extraction;
- Ignitability;
- Corrosivity;
- Reactivity (cyanide/sulfide); and
- Specific conductivity.

8.9 Site Geology and Hydrogeology

Based on visual classification of soils collected during this Phase II investigation, soil within the 32,000 cubic-yard stockpile at the Site generally consisted of brown and grey urban fill material including gravelly sand with varying amounts of debris, including asphalt, concrete, and wood. Based on the soil borings advanced throughout the site, native material underlying the urban fill consisted of tan, well-graded fine to coarse sand.

During this investigation, groundwater at the Site was encountered at depths of approximately 13 to 15 feet bgs at the lower elevations of the site, and 27 to 32 feet bgs at the higher elevations of the site. Based on local and regional surface topography and locations of surface water bodies, groundwater flow at the site is assumed to be in a southeasterly direction toward the Sudbury River. Actual local groundwater flow direction can be influenced by factors such as underground

structures, seasonal fluctuations, soil and bedrock geology, and production wells, none of which were considered during this study. A groundwater elevation survey to calculate groundwater flow direction was not performed as part of this investigation.

9.0 LABORATORY ANALYTICAL RESULTS

9.1 Applicable Regulatory Standards

Soil analytical results were compared to the MassDEP MCP RCS-1 Reportable Concentrations because the site is located within a High Yield Aquifer, and as the site is proposed to be developed as a residential property. Groundwater analytical results were compared to the MassDEP MCP RCGW-1 Reportable Concentrations because the site is located within a High Yield Aquifer.

Methane concentrations in soil vapor samples were compared to the 10% of the LEL MCP Imminent Hazard notification criterion (310 CMR 40.0321) applicable to a release to the environment that could result in in the presence of oil and/or hazardous material vapors within buildings, structures, or underground utility conduits.

9.2 32,000 Cubic-Yard Soil Stockpile Analytical Results

Based on the laboratory analytical results, TPH was detected at concentrations exceeding the MCP RCS-1 Reportable Concentration of 1,000 milligrams per kilogram (mg/kg) in 21 of the samples collected from the test pits. However, in accordance with the MCP, if the sum of extractable petroleum hydrocarbons (EPH) fractions is below the 1,000 mg/kg threshold in addition to each of the individual fractions being below the applicable MCP RCS-1 Reportable Concentration, the detected TPH concentrations are not reportable. Samples with TPH concentrations exceeding 1,000 mg/kg were analyzed for EPH fractions. EPH fractions were not detected at concentrations exceeding the applicable MCP RCS-1 Reportable Concentrations, and the summation of the fractions did not exceed 1,000 mg/kg. Given these results, the detected TPH concentrations do not constitute a reportable condition.

Various SVOCs were also detected above the applicable MCP RCS-1 standards in samples TP-A5 (5-10'), TP-C1 (5-10'), TP-C2 (0-5'), TP-C3 (0-5'), TP-C3 (5-10'), TP-C6 (0-5'), TP-C6 (5-10'), TP-D1 (0-5'), TP-D1 (5-10'), TP-D4 (0-5'), TP-D6 (5-10') and TP-E3 (5-10'). Total lead was detected above MCP RCS-1 in soil samples TP-E7 (0-5') and TP-E7 (5-10). Laboratory analyses did not detect

asbestos in the samples collected from the stockpile. A summary of soil analytical results is presented on Table 1, and a copy of the laboratory analytical report is included in Appendix J.

9.3 4,500 Cubic Yard Soil Stockpile Analytical Results

Based on the laboratory analytical results, TPH was detected at concentrations exceeding the MCP RCS-1 Reportable Concentration of 1,000 mg/kg in soil sample TP-V-102. However, based additional EPH analysis, EPH fractions were not detected above the applicable MCP RCS-1 Reportable Concentrations, and the summation of the fractions did not exceed 1,000 mg/kg. Given these results, the detected TPH concentration does not constitute a reportable condition.

9.4 Soil Boring Analytical Results

Based on the laboratory analytical results, constituents of concern were not detected at concentrations exceeding the MCP RCS-1 Reportable Concentrations in soil samples collected from soil borings V-110 through V-116. TPH was detected in V-110 (5-10'), V-111 (0-10'), and V-114 (5-10') at concentrations exceeding the laboratory detection limit, but below applicable MCP RCS-1 standards. Toluene was detected in V-110 (5-10'), V-111 (0-10'), V-112 (0-5'), and V-114 (5-10') at concentrations exceeding the laboratory detection limit, but below applicable MCP RCS-1 standards. Various metals were also detected in soil samples collected from soil borings V-107 through V-114, but at concentrations less than the applicable MCP RCS-1 Reportable Concentrations. A summary of soil analytical results is presented on Table 2, and a copy of the laboratory analytical report is included in Appendix J.

9.5 Groundwater Analytical Results

A summary of groundwater analytical results is presented on Table 3, and a copy of the laboratory analytical report is included in Appendix J.

Based on the laboratory analytical results, dissolved arsenic was detected in the groundwater sample collected from monitoring well V-102 (MW) at 26 µg/l, exceeding the MCP RCGW-1 Reportable Concentration of 10 µg/l. Additionally, ammonia was detected in groundwater samples collected from V-101 (MW), V-102 (MW), V-105 (MW), and V-106 (MW) at respective

concentrations of 1,500 µg/l, 1,500 µg/l, 1,100 µg/l, and 2,000 µg/l, exceeding the MCP RCGW-1 standard of 1,000 µg/l. Methyl tert-butyl ether (MTBE) was detected in groundwater samples collected from V-101 (MW), V-102 (MW), V-105 (MW), and V-106 (MW) exceeding the laboratory detection limit, but less than the applicable MCP RCGW-1 concentrations.

Tertiary-amyl methyl ether (TAME) was detected in groundwater samples collected from V-101 (MW) and V-106 (MW) at 4.5 µg/l and 6.4 µg/l, respectively; however, there is no applicable MCP RCGW-1 Reportable Concentration for TAME. Similarly, various total metals were detected in groundwater samples collected at the site; however, there are no applicable MCP RCGW-1 Reportable Concentrations for total metals. As a screening method, VERTEX compared the total metals detected concentrations to the relative dissolved metals MCP RCGW-1 Reportable Concentrations. Except for the detection of nickel in the groundwater sample V-106 (MW), the detected total metals concentrations were not detected at concentrations exceeding the relative dissolved metals MCP RCGW-1 Reportable Concentrations. Total nickel was detected in the groundwater sample collected from V-106 (MW) at 110 µg/l, exceeding the MCP RCGW-1 Reportable Concentration for dissolved nickel. Based on this exceedance, VERTEX submitted the sample for analysis of dissolved nickel. Based on the analytical results dissolved nickel was detected in V-106 (MW) at 110 µg/l, exceeding the applicable MCP RCGW-1 Reportable Concentration.

The ammonia, arsenic, and nickel in either or both of V-102 (MW) and V-106 (MW) are attributable to the Sudbury Landfill. However, to assess whether dissolved metals and ammonia detected in groundwater samples could pose an ecological risk, VERTEX compared the detected concentrations to the MCP Method 1 GW-3 groundwater standards (310 CMR 40.0974(2)), which applies to all groundwater in the Commonwealth. These standards are intended to address the potential for adverse ecological affects that could result from discharge of OHM to surface water.

As shown in the table below, concentrations of arsenic and nickel are well below their respective Method 1 GW-3 standards. However, the MCP does not establish a GW-3 standard for ammonia.

LOCATION ID	GW-3	UNITS	MW-3	V-101 (MW)	V-102 (MW)	V-103 (MW)	V-104 (MW)	V-105 (MW)	V-106 (MW)
SAMPLE DATE			4/2/2019	4/1/2019	4/1/2019	4/2/2019	4/2/2019	4/1/2019	4/2/2019
Arsenic (Dissolved)	900	µg/L	0.74	0.98	26	0.74	0.79	1.1	1.0
Nickel (Dissolved)	200	µg/L	-	-	-	-	-	-	110
Ammonia	NS	µg/L	ND (300)	1,500	1,500	ND (300)	ND (300)	1,100	2,000

In accordance with MassDEP guidance documents, VERTEX calculated an equivalent groundwater protection criterion for ammonia to assess whether concentrations of ammonia detected in groundwater samples would pose a significant ecological risk if the groundwater were to discharge to surface water. The equivalent groundwater protection criterion was calculated using the following equation as provided in MCP Numerical Standards by MassDEP (reformatted December 2017).

$$[OHM]_{target\text{-}gw} = [OHM]_{eco\text{-}sw} \times D_{gw} \times D_{sw}$$

Where:
$[OHM]_{target\text{-}gw}$ = Equivalent GW-3 standard
$[OHM]_{eco\text{-}sw}$ = 1.9 mg/L (final chronic AWQC)[1]
D_{gw} = groundwater to surface water dilution factor (dimensionless)
D_{sw} = dilution factor in the receiving surface water body (dimensionless)

Using the lowest (protective) Dgw value of 2.5 that applies to OHM having organic-carbon portioning coefficients (Koc) of less than 1,000 mL/g, and using the default Dsw value of 10, the equivalent groundwater criterion is calculated as follows:

$$[OHM]_{target\text{-}gw} = 1.9 \text{ mg/L} \times 2.5 \times 10 = 47.5 \text{ mg/L (or 47,500 µg/L)}$$

Because concentrations of ammonia detected in site groundwater samples are well below the calculated groundwater criterion of 47,500 µg/L, VERTEX does not anticipate adverse ecological effects.

[1] Final Aquatic Life Ambient Water Quality Criteria for Ammonia-Freshwater 2013, published by the EPA on 08/22/2013 (Document number 2013-20307)

Based on the proposed construction of an on-site stormwater and treated wastewater infiltration system, localized mounding of groundwater would be expected to occur during significant rain events. Based on the detected concentrations of metals and ammonia being well below applicable standards for the protection of surface water and ecological receptors, no exacerbation of the extent or impacts of these metals and ammonia is anticipated. Additional water infiltration will further disperse and dilute the low-level metal and ammonia concentrations within and downgradient of the site.

9.6 Soil Vapor Analytical Results

Based on the laboratory analytical results, methane was not detected above the laboratory detection limit in soil vapor samples V-SG-101 through V-SG-106. A summary of soil vapor analytical results is presented on Table 4, and a copy of the laboratory analytical report is included in Appendix J.

9.7 Firing Range Analytical Results

Based on the laboratory analytical results, total lead was detected in five out of the six samples collected from the firing range at concentrations exceeding the MCP RCS-1 Reportable Concentration of 200 mg/kg. Additionally, antimony and copper were detected at concentrations exceeding the applicable MCP RCS-1 Reportable Concentrations in three of the six samples and in four of the six samples, respectively. VERTEX also submitted each of the samples for TCLP lead analysis. While there is no MCP RCS-1 Reportable Concentration for TCLP lead, VERTEX compared the analytical results to the Resource Conservation and Recovery Act (RCRA) regulatory concentration for classification of characteristic hazardous waste. Based on the analytical results, each of the six samples exceeded the RCRA regulatory concentration of 5 milligrams per liter (mg/L) for characteristic hazardous waste.

Based on the laboratory analytical results of the composite sample collected from the firing range and submitted for soil characterization, antimony and lead were detected at concentrations exceeding the applicable MCP RCS-1 Reportable Concentrations. Additionally, arsenic, barium, cadmium, chromium, nickel, silver, vanadium, zinc, and TPH were detected exceeding the

laboratory detection limit but less than the MCP RCS-1 Reportable concentration and VOCs, SVOCs, and PCBs were not detected exceeding the laboratory detection limit. A summary of the firing range soil analytical results is presented on Table 5, and a copy of the laboratory analytical report is included in Appendix J.

9.7.1 Correlation Analysis

To provide an approximate area of impact within the firing range, VERTEX performed a basic correlation analysis between the XRF screening values and lead analytical results collected. Based on the correlation analysis, a statistically significant relationship exists between the XRF lead screening values and analytical data. Using the extrapolated equation, VERTEX approximated the lead concentrations in the grids screened using the handheld XRF analyzer. The results of this extrapolation are depicted on Figure 4A.

9.7.2 Vertical Delineation

On May 8, 2019, to assess the vertical depth of metals impacts within the firing range, VERTEX oversaw the advancement of 11 test pits within impacted areas of the firing range. The test pits were advanced by ECO Environmental Contracting (ECO) of Methuen, Massachusetts using an excavator. An additional three borings were advanced by VERTEX using a hand auger in the westernmost portion of the firing range, beyond the firing range berm.

Eight test pits were advanced within the area east of the firing range berm, each was advanced to a total depth of 6 feet bgs. VERTEX collected one composite sample from each test pit from 2 to 4 feet bgs (V-301 through V-308). The remaining three test pits were advanced through the berm to depths of 2 feet below the berm into the underlying native soil (e.g. 2 feet below the base of the berm), with one composite sample collected from each test pit from the underlying native soil (V-309 through V-311). Using a hand auger, VERTEX advanced three soil borings to a total depth of 4 feet bgs in the western edge of the firing range, beyond the firing range berm. VERTEX collected one composite sample from each boring from 2 to 4 feet bgs (V-312 through V-314).

Soil samples were collected in laboratory-supplied pre-cleaned containers, stored on ice, and transferred under chain-of-custody to Con-Test for the following laboratory analyses:

- Antimony, Copper, and Lead by USEPA Method 6010.

Based on the laboratory analytical results, antimony, copper, or lead were not detected at concentrations exceeding the applicable MCP RCS-1 Reportable Concentrations in samples V-301 through V-314. However, lead was detected at concentrations above 100 mg/kg in samples V-310 and V-312, and additional TCLP lead analysis was requested for those samples. Based on the laboratory analytical results, TCLP lead was detected in sample V-310 at a concentration exceeding the RCRA regulatory concentration of 5 mg/L for classification as a characteristic hazardous waste, if that soil were to be managed in a manner that would constitute generation (i.e. excavation and placement into containers and/or transportation of that soil from the area of lead-impacted soil without first rendering the soil non-hazardous). TCLP lead was detected at a concentration exceeding the laboratory detection limit in sample V-312, but less than the RCRA regulatory concentration for characteristic hazardous waste. A summary of the firing range soil analytical results is presented on Table 5, and a copy of the laboratory analytical report is included in Appendix J

Antimony, copper, and lead impacts within the firing range have been vertically delineated because concentrations of those metals were not detected at concentrations exceeding the applicable MCP RCS-1 Reportable Concentrations at depths below 2 feet bgs\. However, TCLP lead was detected above the RCRA regulatory concentration for characteristic hazardous waste in a sample collected from directly underneath the center of the berm. The locations of the vertical delineation samples are shown on Figure 4B.

10.0 DATA GAPS

Meaningful data gaps that would affect VERTEX's ability to identify RECs at the site were not encountered during this assessment. Deviations or deletions from the scope of work defined by ASTM E 1527-13 were not intentionally made.

Our conclusions regarding the potential environmental impact of nearby, off-Site facilities on the site are based on readily available information from the environmental databases and the assumed groundwater flow direction as inferred from the topography of the site and surrounding area. A detailed file review of each facility was beyond the scope of work; however, VERTEX reviewed information pertaining to the site available online from the MassDEP, as discussed in Section 6.1.

11.0 CONCLUSIONS AND RECOMMENDATIONS

11.1.1 Conclusions

VERTEX has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, of the River's Edge property, located at 484 – 490 Boston Post Road in Wayland, Massachusetts. Between February 19 and April 11, 2019, VERTEX performed Phase II LSI activities at the site to investigate RECs identified as part of the Phase I ESA investigation and to characterize soil at the site. Exceptions to, or deletions from, this practice are described in Section 10.0 of this report. This assessment has revealed the following RECs in connection with the Site:

- The detection of SVOCs and lead at concentrations exceeding applicable MCP RCS-1 Reportable Concentrations in soil samples collected from the 32,000 cubic yard stockpile represents a REC at the site;
- The detection of lead, antimony, and copper at concentrations exceeding applicable MCP RCS-1 Reportable Concentrations in soil samples collected from the firing range at the site is considered a REC; and
- Dissolved arsenic, nickel, and ammonia, originating from the upgradient Sudbury Landfill, at concentrations exceeding MCP RCGW-1 reportable concentrations in groundwater samples collected from the site represent a REC.

This assessment revealed the following BER in connection with the site:

- The elevated readings of methane above 10% of the LEL along the perimeter of the abutting Sudbury Landfill and the potential for methane intrusion at the site represents a BER to be addressed during site redevelopment.

This assessment revealed the following HREC in connection with the site:

- Based on the successful remediation of ACWM associated with RTN 3-34474, the ACWM in the stockpile is considered an HREC.

11.2 Recommendations

11.2.1 Soil Management

Based on the detection of SVOCs and lead exceeding MCP RCS-1 Reportable Concentrations in several samples collected from the stockpile, and the detection of antimony, copper, and lead exceeding MCP RCS-1 Reportable Concentrations in the majority of samples collected from the firing range, conditions exist for which the MCP requires notification to be made to the MassDEP within 120-days of the property owner's knowledge or within 120 days of a new owner's purchase of the property. The release conditions should be addressed in accordance with the MCP.

With respect to soil disposal, based on the laboratory analytical results most of the sampled material is suitable for disposal at Massachusetts RCS-1 and RCS-2 facilities. Additionally, based on the presence of MassDEP reportable conditions, VERTEX recommends the completion and implementation of a Release Abatement Measure (RAM) Plan in accordance with 310 CMR 40.0440 to outline appropriate methods for remediation and management of the identified impacted soils, and potentially impact soil in areas that were not accessible for assessment and that may be encountered. during redevelopment and construction activities.

VERTEX recommends that a Soils Management Plan (SMP) be prepared for reference and use by site contractors. The SMP would apply to the management of soil during construction, including the small stockpile, and berms not associated with the firing range. It would not apply to soils to be addressed under the RAM Plan prior to construction. The SMP should identify the applicable management procedures for the transportation of soil off-site for reuse or disposal, including requirements for shipping documentation, receipts from receiving facilities, stockpile management, and acceptance criteria for any soil to be imported.

11.2.2 Groundwater

Based on the detection of dissolved arsenic and nickel and ammonia on site at concentrations exceeding the MCP RCGW-1 reportable concentrations, the detections constitute conditions for which the MCP requires notification to be made to the MassDEP within 120-days of the property owner's knowledge or within 120 days of a new owner's purchase of the property. The release should be addressed in accordance with the MCP.

However, based on a review of historical environmental reports, dissolved arsenic, dissolved nickel, and ammonia have been historically detected in groundwater at the abutting upgradient Sudbury landfill at concentrations also exceeding the MCP RCGW-1 reportable concentrations. Furthermore, the highest concentrations of metals and ammonia were detected in hydraulically upgradient portions of the site. Therefore, these detected concentrations are attributable to the Sudbury Landfill. Based on 310 CMR 40.0315, and the historical reports reviewed, VERTEX recommends notifying the MassDEP of the groundwater release condition and the submittal of a Downgradient Property Status (DPS) Opinion in accordance with 310 CMR 40.0180. Because parties asserting a DPS are required to abate Imminent Hazards, VERTEX conducted an assessment to evaluate whether dissolved metals and ammonia detected in groundwater samples could pose an ecological risk, as discussed in Section 9.5. The evaluation concluded that an ecological risk is not present, and therefore an imminent hazard does not exist.

11.2.3 Soil Vapor

While methane was not detected at concentrations exceeding the laboratory detection limit in the soil vapor samples collected at the site, based on screening data and the on-going detections of methane above 10% of the LEL along the perimeter of the abutting Sudbury Landfill, the potential of vapor intrusion into buildings remains possible. VERTEX recommends the installation of a chemically resistant vapor barrier and/or a vapor mitigation system to protect indoor air in future buildings constructed where occupied ground floors and/or basement areas are in contact with the site soils. Based on current development plans, mechanically ventilated garages are to

be constructed along the lower levels of the proposed buildings, which would be appropriate for vapor mitigation.

12.0 SCOPE AND LIMITATIONS

12.1 Purpose

The primary purpose of this assessment is to identify, to the extent feasible pursuant to the processes prescribed in ASTM E 1527-13, RECs in connection with the site. As defined in ASTM E 1527-13, a REC is defined as "the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." It does not include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A "historical REC" is defined in ASTM E 1527-13 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls." ASTM E 1527-13 defines the term "controlled REC" as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

In conducting this assessment, VERTEX followed ASTM E 1527-13, as well as the U.S. Environmental Protections Agency's All Appropriate Inquires (AAI) Final Rule of November 1, 2005 as amended December 30, 2013. Any exceptions to, or deletions from, this practice are described in Section 10.0 of the report. ASTM defines good commercial and customary practice for conducting an ESA of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation

and Liability Act (CERCLA) (42 U.S.C. 9601) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. The practice constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C. 9601(35)(B).

As part of ASTM E 1527-13, Phase I ESAs must be conducted by or under the supervision of a qualified Environmental Professional. The AAI Final Rule defines an Environmental Professional as someone who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors of the rule. We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR 312.10. We have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the site. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

12.2 Detailed Scope-of-Services

As part of this Phase I ESA, and in accordance with the general provisions of ASTM E 1527-13, VERTEX performed a visual reconnaissance of the site, noted use of adjoining properties, and conducted historical and regulatory records research. The following provides a more detailed description of the scope of services:

- Visual inspection of the site building(s), if present, and grounds to identify potential for on-site petroleum or hazardous material release(s).
- Visual inspection and categorization of the use of abutting and adjoining properties as potential off-site sources of petroleum or hazardous material contamination to the site.

- Review of readily available state and federal regulatory records related to on-site activities and to potential off-site activities to identify sources of petroleum or hazardous material contamination to the site.

- Review of readily available historical information to assess for potential on-site and off-site sources of petroleum or hazardous material contamination to the site.

- Review of readily available local records related to historical site ownership, usage, and development. This includes obtaining information from local environmental authorities to identify complaints, violations, citations, inspections, environmental liens, activity and use limitations (AULs), or institutional and engineering controls related to the site.

- Review of readily available documents and other resources for the site and site vicinity to evaluate current and historical development and renovation activities.

- Visual assessment for suspect PCB containing equipment, e.g., transformers, elevators. Please note, this scope of work does not include an evaluation for or testing of suspect PCBs in building materials such as caulking, mastic/adhesives, oil-based paints, coatings and sealants. Currently, there are no regulatory requirements to test in-place building materials for the presence of PCBs. Although testing is not required for in place materials, owners are required to know the content of the waste streams that they generate and potentially sign waste profiles prior to disposal facility acceptance. Therefore, if renovation or demolition activities are to be conducted at the site that will result in the generation of demolition debris, a contractor and/or waste disposal facility may request certification of knowledge of the waste stream and/or testing to determine if the material(s) contain PCBs for proper handling and disposal purposes. VERTEX can further discuss this issue and/or provide a proposal for testing and analysis for PCBs if requested.

- Visual inspection of the accessible areas of the site and review of readily available public records to assess the presence or absence of the following ASTM E 1527-13 non-scope considerations: ACMs, LBP, and radon.

- Preparation of a Phase I ESA report.

12.3 Significant Assumptions

Information obtained from the Client, the Client's representative, site representatives, individuals interviewed, and prior environmental reports is considered to be accurate unless VERTEX's reasonable inquiries clearly revealed otherwise.

Conditions observed were considered to be representative of areas that were not observed unless otherwise indicated.

The primary direction of groundwater flow is assumed to follow topography, unless otherwise indicated by measurement of the potentiometric surface or other quantifiable data.

VERTEX reviewed reasonably ascertainable public records with respect to past operations and ownership of the site in an attempt to determine past site usage. VERTEX is not a professional title insurance firm and makes no guarantee, express or implied, that the listing reviewed represented a comprehensive delineation of past site ownership or tenancy for legal purposes. The accuracy and completeness of information maintained in public records by public agencies or other entities is assumed to be sufficient for the purposes of this Phase I ESA, and independent verification of its validity is beyond the scope of this investigation.

12.4 Limitations and Exceptions

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. The findings within this ESA utilized information that was practically reviewable per ASTM Practice E 1527-13, meaning that only relevant data relating to the subject site has been incorporated into the findings, disregarding extraordinary analysis of irrelevant data. The investigation conducted for this ESA was limited to data that were reasonably ascertainable, meaning that the information was publicly available, obtainable within the cost and time constraints under the scope of services for this project, and practically available. VERTEX is not responsible for the independent conclusions, opinions, or recommendations made

by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Subsurface conditions were not field investigated as part of this study and may differ from the conditions implied by the surficial observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. VERTEX does not warrant against future operations or conditions, or against operations or conditions present of a type or at a location not investigated. VERTEX does not assume responsibility for other environmental issues that may be associated with the subject site.

This study is not intended to assess or otherwise determine if soil contamination, waste emplacement, or groundwater contamination exists. These data are accessible only by sampling of subsurface material and groundwater through the completion of soil borings and the installation of monitoring wells and the chemical analyses of soil and groundwater samples. The scope of work, determined by the client, did not include these activities.

In view of the rapidly changing status of environmental laws, regulations and guidelines, VERTEX cannot be responsible for changes in laws, regulations, or guidelines that occur after the study has been completed and that may affect the subject site.

It must be noted that no investigation can absolutely rule out the existence of hazardous materials at a given site. This assessment has been based upon prior site history and observable conditions. Existing hazardous materials and contaminants can escape detection using these methods.

Significant data gaps or accessibility limitations that would affect VERTEX's ability to identify RECs at the site are discussed in Section 8.0.

While VERTEX may comment on environmental compliance matters that fall under the scope of this assessment, this study does not constitute a regulatory compliance audit, and does not document compliance with applicable state, federal, or local regulations.

12.5 Special Terms and Conditions

This report is for the exclusive use of Wood Partners, WP East Acquisitions, LLC, and the Wood Partners affiliated entity taking title to the site, and their lenders and equity partners with respect to the site. No other party shall have the right to rely on service provided by VERTEX without prior written consent. Use of this report by any other party shall be at the party's sole risk.

12.6 User Reliance

This report may be relied upon by Wood Partners, WP East Acquisitions, LLC, and any entities created to hold an investment to which this report relates, including the entity created to own the site and their respective affiliates, any of Wood Partners' auditors, legal counsel, consultants, advisors and debt and equity capital sources and any party that purchases an interest in the property (or an interest in an entity that directly or indirectly owns the property) from Wood Partners and a reference to this report may be included or quoted in a private placement memorandum, registration statement, prospectus, sales brochure, annual or quarterly reports, proxy statements, Forms 8-K or similar documents (in either electronic or hard format) issued, filed or released in connection with a sale, for firm securitization, or any loan on the property or other transaction or reporting involving the property referenced in this report.

13.0 REFERENCES

Agencies Contact Records Reviewed:

Town of Wayland Fire Department

Town of Wayland Assessor's Office

Town of Wayland Department of Public Works

Town of Wayland Health Department

Town of Wayland Building Department

Town of Wayland Conservation Commission

Town of Wayland Town Clerk

Town of Sudbury Department of Public Works

South Middlesex County Registry of Deeds

Massachusetts Department of Environmental Protection

Other Documents Reviewed:

Phase I Environmental Site Assessment and Limited Phase II Investigation Report, prepared by Tighe & Bond, dated October 2012.

Former Wayland-Sudbury Septage Facility Groundwater Summary Memorandum – August 2015 Sampling Event, prepared by Tighe & Bond, dated September 2, 2015.

City Directories, dated 1984, 1988, 1992, 1995, 1999, 2003, 2008, and 2013.

EDR Database Report, April 4, 2019.

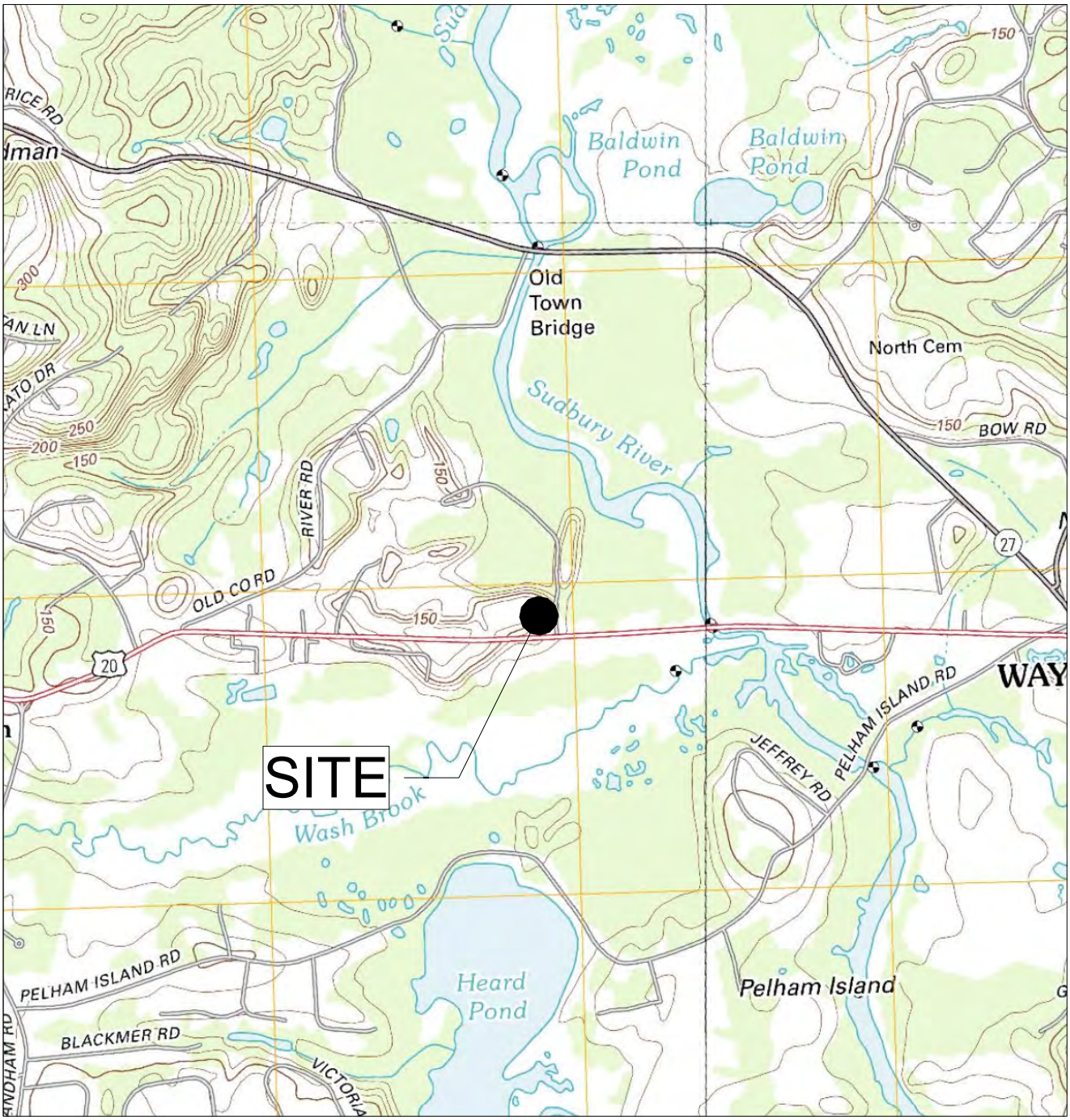
Aerial photographs, dated 1952, 1957, 1963, 1969, 1970, 1978, 1980, 1985, 1995, 2006, 2008, 2010, and 2012.

Topographic maps, dated 1894, 1915, 1918, 1943, 1950, 1958, 1965, 1970, 1979, 1987, and 2012.

Federal Emergency Management Administration (FEMA) Flood Insurance Rate Map https://msc.fema.gov/portal

United States Department of Agriculture Natural Resources Conservation Service Web Soil Survey https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm

FIGURES



0 0.5 1.0 1.5

SCALE: 1" = 0.5 miles
(WHEN PRINTED AT 8x11)

SOURCE: UNITED STATES GEOLOGICAL SURVEY MAP FRAMINGHAM MA QUADRANGLE 7.5 MINUTE SERIES (2012)

SITE LOCUS

RIVER'S EDGE

484 - 490 Boston Post Road
Wayland, Massachusetts

Date:	04/22/19
Drawn:	KS
Checked:	FC
Job No.:	46047

FIGURE 1

VERTEX®
VERTEXENG.COM
100 N WASHINGTON ST, 302
BOSTON, MA 02114
617.275.5407

LEGEND:

- V-103 (MW) — VERTEX Monitoring Well
- V-113 — Soil Boring
- MW-3 — Monitoring Well Installed by Others
- V-SG-101 — Soil Vapor Sample Point
- Approximate Site Boundary

N

0 100 200 300

SCALE: 1" = 100'-0"
(WHEN PRINTED AT 11x17)

C:\Users\khovely\Desktop\2014 CAD standards\VERTEX symbols & standards_for TurboCAD.dxf
Friday, March 07, 2014 11:59:37 AM

SITE SCHEMATIC

RIVER'S EDGE

484 - 490 BOSTON POST ROAD
WAYLAND, MA

File No.:
Date: 3/29/19
Drawn: KS
Checked: FC
Job No.: 46047

FIGURE 2

REVISIONS
4/22/19

VERTEX®
100 N WASHINGTON ST, STE 302
BOSTON, MA 02114
617.275.5407
VERTEXENG.COM

LEGEND:

E5 Test Pit Grid Number

Approximate Configuration of 32,000 cy Stockpile

TP-V-101 4,500 cy Stockpile Test Pit Location

Approximate Configuration of 4,500 cy Stockpile

N

0 50 100 150

SCALE: 1" = 50'-0"
(WHEN PRINTED AT 11x17)

STOCKPILE GRID LAYOUT

RIVER'S EDGE

484 - 490 BOSTON POST ROAD
WAYLAND, MA

File No.:	DRAFT
Date:	03/05/19
Drawn:	KS
Checked:	BP
Job No.:	46047

FIGURE 3

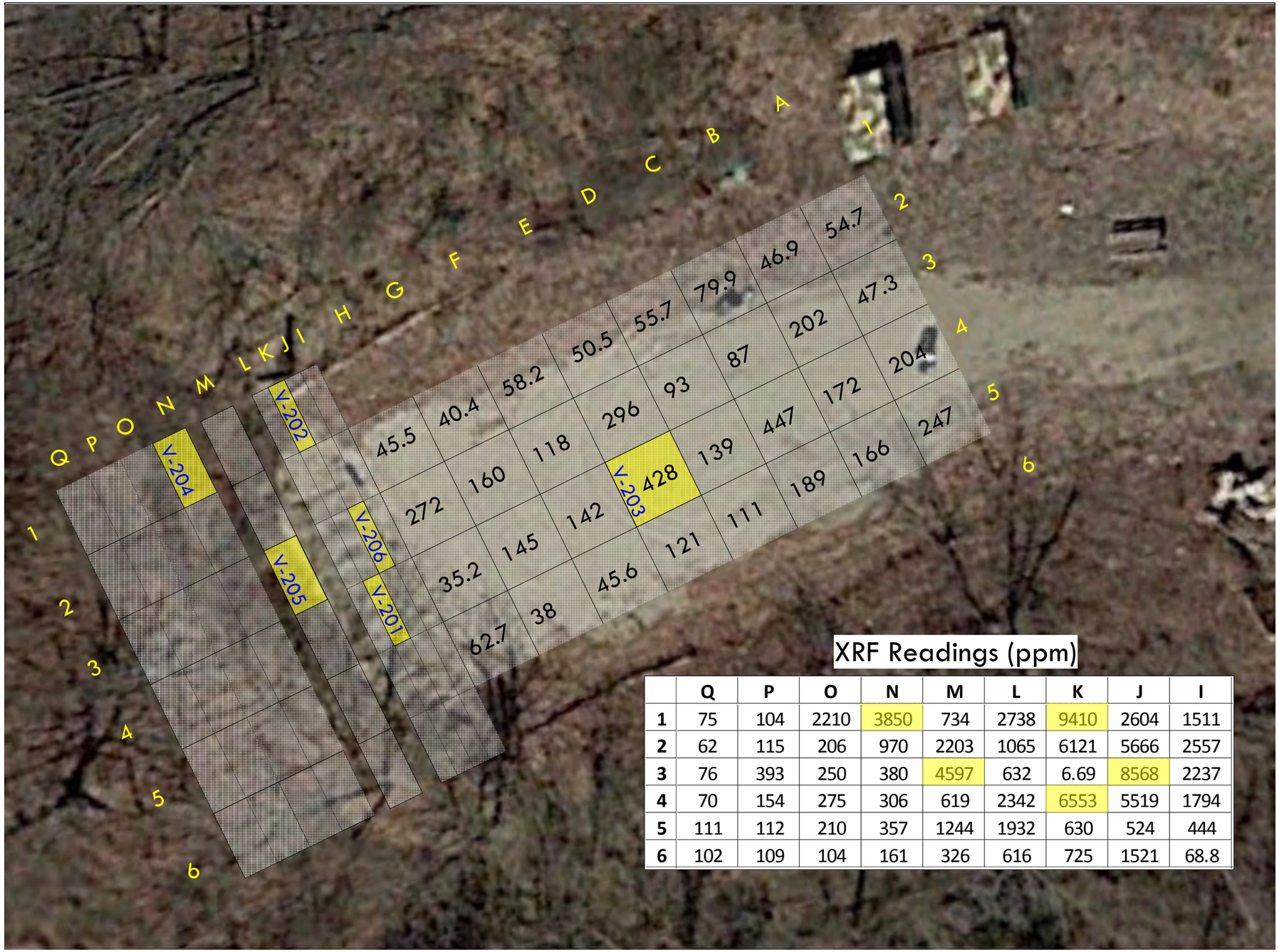
REVISIONS 03/14/19

VERTEX
100 N WASHINGTON ST, STE 302
BOSTON, MA 02114
617.275.5407
VERTEXENG.COM

LEGEND:

45.5 XRF Reading (ppm)

V-201 Grid Sampled



XRF Readings (ppm)

	Q	P	O	N	M	L	K	J	I
1	75	104	2210	3850	734	2738	9410	2604	1511
2	62	115	206	970	2203	1065	6121	5666	2557
3	76	393	250	380	4597	632	6.69	8568	2237
4	70	154	275	306	619	2342	6553	5519	1794
5	111	112	210	357	1244	1932	630	524	444
6	102	109	104	161	326	616	725	1521	68.8

N

0 15 30 45

SCALE: 1" = 15'-0"
(WHEN PRINTED AT 11x17)

FIRING RANGE ASSESSMENT

RIVER'S EDGE

484 BOSTON POST ROAD
WAYLAND, MA

File No.:	DRAFT
Date:	04/12/19
Drawn:	KS
Checked:	FC
Job No.:	46047

FIGURE 4

REVISIONS

VERTEX
100 N WASHINGTON ST, STE 302
BOSTON, MA 02114
617.275.5407
VERTEXENG.COM

LEGEND:

Approximate Area
Lead > RCS-1

N

0 15 30 45

SCALE: 1" = 15'-0"
(WHEN PRINTED AT 11x17)

APPROXIMATE AREA OF LEAD IMPACT

RIVER'S EDGE

484 BOSTON POST ROAD
WAYLAND, MA

File No.:	DRAFT
Date:	04/22/19
Drawn:	KS
Checked:	FC
Job No.:	46047

FIGURE 4A

REVISIONS

VERTEX®
100 N WASHINGTON ST, STE 302
BOSTON, MA 02114
617.275.5407
VERTEXENG.COM

LEGEND:

V-301

Lead Vertical Delineation Sample

V-301 through V-308 (2-4 feet bgs)
V-309 through V-311 (0-2 feet bgs)
V-312 through V-314 (2-4 feet bgs)

0 15 30 45

SCALE: 1" = 15'-0"
(WHEN PRINTED AT 11x17)

FIRING RANGE VERTICAL DELINEATION ASSESSMENT

RIVER'S EDGE

484 BOSTON POST ROAD
WAYLAND, MA

File No.:	DRAFT
Date:	04/12/19
Drawn:	KS
Checked:	FC
Job No.:	46047

FIGURE 4B

REVISIONS

VERTEX®
100 N WASHINGTON ST, STE 302
BOSTON, MA 02114
617.275.5407
VERTEXENG.COM

TABLES

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-A1 (0-5)	TP-A1 (5-10)	TP-A2 (0-5)	TP-A2 (5-10)	TP-A3 (0-5)	TP-A3 (5-10)	TP-A4 (0-5)	TP-A4 (5-10)	TP-A5 (0-5)	TP-A5 (5-10)	TP-B1 (0-5)	TP-B1 (5-10)	TP-B2 (0-5)	TP-B2 (5-10)	TP-B3 (0-5)	TP-B3 (5-10)	TP-B4 (0-5)
Sample Date			3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5
Asbestos																			
CARB 435	NSE	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Extractable Petroleum Hydrocarbons (EPH) with target Polynuclear Aromatic Hydrocarbons (PAHs)																			
C09-C18 Aliphatic Hydrocarbons (adjusted)	1000	mg/kg	--	--	--	--	--	--	ND(23)	ND(23)	ND(22)	ND(23)	--	--	--	--	ND(22)	--	--
C11-C22 Aromatic Hydrocarbons (adjusted)	1000	mg/kg	--	--	--	--	--	--	190	290	280	300	--	--	--	--	160	--	--
C11-C22 Aromatics (unadjusted)	NSE	mg/kg	--	--	--	--	--	--	210	320	290	340	--	--	--	--	180	--	--
C19-C36 Aliphatics (adjusted)	3000	mg/kg	--	--	--	--	--	--	140	210	220	190	--	--	--	--	120	--	--
Total Petroleum Hydrocarbons (TPH)																			
TPH	1000	mg/kg	440	530	410	590	790	940	1000	1000	1400	1300	760	480	300	510	1000	690	400
Volatile Organic Compounds (VOCs)																			
Total VOCs	NSE	mg/kg	ND(0.17)	0.0019	ND(0.18)	ND(0.17)	ND(0.18)	ND(0.16)	ND(0.16)	ND(0.19)	ND(0.21)	ND(0.19)	ND(0.092)	0.0045	ND(0.17)	ND(0.18)	ND(0.19)	ND(0.31)	ND(0.17)
Semivolatile Organic Compounds (SVOCs)																			
Acenaphthene	4	mg/kg	ND(0.39)	ND(0.20)	ND(0.76)	ND(0.36)	ND(0.77)	ND(0.96)	ND(0.96)	ND(0.98)	ND(0.78)	ND(0.98)	ND(0.38)	ND(0.92)	ND(0.19)	ND(0.37)	ND(0.76)	ND(0.69)	ND(0.92)
Acenaphthylene	1	mg/kg	ND(0.39)	ND(0.20)	ND(0.76)	ND(0.36)	ND(0.77)	ND(0.96)	ND(0.96)	ND(0.98)	ND(0.78)	ND(0.98)	ND(0.38)	ND(0.92)	ND(0.19)	ND(0.37)	ND(0.76)	ND(0.69)	ND(0.92)
Anthracene	1000	mg/kg	ND(0.39)	ND(0.20)	ND(0.76)	ND(0.36)	ND(0.77)	ND(0.96)	ND(0.96)	1.2	ND(0.78)	ND(0.98)	ND(0.38)	ND(0.92)	ND(0.19)	ND(0.37)	0.76	ND(0.69)	ND(0.92)
Benzo(a)Anthracene	7	mg/kg	0.69	0.36	ND(0.76)	1.3	1.2	1.2	1.4	1.4	1.6	2.1	0.72	1.3	0.68	0.84	1.8	ND(0.69)	ND(0.92)
Benzo(a)Pyrene	2	mg/kg	0.72	0.40	ND(0.76)	1.4	1.2	1.2	1.5	1.5	1.5	2.0	0.82	1.4	0.72	0.92	1.7	ND(0.69)	ND(0.92)
Benzo(b)Fluoranthene	7	mg/kg	0.84	0.45	0.77	1.6	1.5	1.3	1.7	1.8	1.8	2.5	1.0	1.6	0.86	1.1	2.0	ND(0.69)	ND(0.92)
Benzo(g,h,i)Perylene	1000	mg/kg	0.44	0.26	ND(0.76)	0.76	0.80	ND(0.96)	ND(0.96)	1.1	0.93	1.2	0.43	0.98	0.57	0.70	1.1	ND(0.69)	ND(0.92)
Benzo(k)Fluoranthene	70	mg/kg	ND(0.39)	ND(0.20)	ND(0.76)	0.64	ND(0.77)	ND(0.96)	ND(0.96)	ND(0.98)	ND(0.78)	ND(0.98)	0.43	ND(0.92)	0.34	0.40	ND(0.76)	ND(0.69)	ND(0.92)
Chrysene	70	mg/kg	0.66	0.39	ND(0.76)	1.3	1.2	1.2	1.4	1.3	1.4	1.9	0.80	1.4	0.74	0.88	1.7	ND(0.69)	ND(0.92)
Dibenzo(a,h)Anthracene	0.7	mg/kg	ND(0.39)	ND(0.20)	*ND(0.76)*	ND(0.36)	*ND(0.77)*	*ND(0.96)*	*ND(0.96)*	*ND(0.98)*	*ND(0.78)*	*ND(0.98)*	ND(0.38)	*ND(0.92)*	ND(0.19)	ND(0.37)	*ND(0.76)*	ND(0.69)	*ND(0.92)*
Dibenzofuran	100	mg/kg	ND(0.77)	ND(0.39)	ND(1.5)	ND(0.72)	ND(1.5)	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.6)	ND(2.0)	ND(0.76)	ND(1.8)	ND(0.38)	ND(0.74)	ND(1.5)	ND(1.4)	ND(1.8)
Fluoranthene	1000	mg/kg	1.3	0.62	0.94	2.3	2.4	1.9	2.8	2.5	3.2	3.8	1.1	2.4	1.3	1.6	3.9	ND(0.69)	1.0
Fluorene	1000	mg/kg	ND(0.39)	ND(0.20)	ND(0.76)	ND(0.36)	ND(0.77)	ND(0.96)	ND(0.96)	ND(0.98)	ND(0.78)	ND(0.98)	ND(0.38)	ND(0.92)	ND(0.19)	ND(0.37)	ND(0.76)	ND(0.69)	ND(0.92)
Indeno(1,2,3-cd)Pyrene	7	mg/kg	0.43	0.27	ND(0.76)	0.81	ND(0.77)	ND(0.96)	ND(0.96)	1.1	0.95	1.3	0.45	ND(0.92)	0.55	0.67	1.2	ND(0.69)	ND(0.92)
Naphthalene	4	mg/kg	ND(0.39)	ND(0.20)	ND(0.76)	ND(0.36)	ND(0.77)	ND(0.96)	ND(0.96)	ND(0.98)	ND(0.78)	ND(0.98)	ND(0.38)	ND(0.92)	ND(0.19)	ND(0.37)	ND(0.76)	ND(0.69)	ND(0.92)
Phenanthrene	10	mg/kg	0.56	0.28	ND(0.76)	1.1	1.3	1.2	1.6	1.3	2.7	2.3	0.49	1.7	0.80	0.79	3.1	ND(0.69)	ND(0.92)
Pyrene	1000	mg/kg	1.4	0.75	1.3	2.5	2.2	2.4	3.2	2.8	3.2	4.3	1.3	3.1	1.4	1.7	3.8	0.82	1.0
Metals																			
Antimony	20	mg/kg	ND(1.8)	ND(1.9)	ND(1.8)	ND(1.7)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(3.4)	ND(1.8)
Arsenic	20	mg/kg	6.8	5.8	7.6	3.9	7.0	5.7	5.4	4.0	5.7	4.5	9.6	5.4	5.6	5.3	6.0	19	4.7
Barium	1000	mg/kg	37	31	34	37	36	30	33	34	40	34	34	31	32	30	32	58	24
Beryllium	90	mg/kg	0.33	0.38	0.38	0.33	0.26	0.26	0.29	0.28	0.28	0.28	0.36	0.35	0.32	0.30	0.32	0.44	0.22
Cadmium	70	mg/kg	0.51	0.38	0.47	0.29	0.45	0.38	0.39	0.30	0.45	0.41	0.50	0.33	0.41	0.54	0.41	1.2	0.30
Chromium	100	mg/kg	15	15	15	17	13	15	14	17	14	17	17	14	13	15	15	24	12
Lead	200	mg/kg	44	25	58	43	69	48	44	36	43	35	34	23	62	53	60	87	70
Mercury	20	mg/kg	0.051	0.029	0.048	0.032	0.042	0.039	0.095	0.044	0.055	0.054	0.034	ND(0.026)	0.054	0.040	0.036	ND(0.049)	ND(0.026)
Nickel	600	mg/kg	12	12	11	13	9.8	12	11	13	11	13	13	12	9.4	12	12	19	8.9
Selenium	400	mg/kg	ND(3.7)	ND(3.8)	ND(3.7)	ND(3.5)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.6)	ND(3.6)	ND(3.7)	ND(3.7)	ND(3.7)	ND(6.8)	ND(3.5)
Silver	100	mg/kg	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.35)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.36)	ND(0.36)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.68)	ND(0.35)
Thallium	8	mg/kg	ND(1.8)	ND(1.9)	ND(1.8)	ND(1.7)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(3.4)	3.4
Vanadium	400	mg/kg	25	26	21	30	18	23	21	28	29	24	23	22	19	22	21	38	16
Zinc	1000	mg/kg	49	39	49	50	49	43	48	42	52	44	46	34	48	46	51	82	31

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-A1 (0-5)	TP-A1 (5-10)	TP-A2 (0-5)	TP-A2 (5-10)	TP-A3 (0-5)	TP-A3 (5-10)	TP-A4 (0-5)	TP-A4 (5-10)	TP-A5 (0-5)	TP-A5 (5-10)	TP-B1 (0-5)	TP-B1 (5-10)	TP-B2 (0-5)	TP-B2 (5-10)	TP-B3 (0-5)	TP-B3 (5-10)	TP-B4 (0-5)
Sample Date			3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5
Polychlorinated Biphenyls (PCBs)																			
Total PCBs	1	mg/kg	ND(0.091)	ND(0.093)	ND(0.091)	ND(0.085)	ND(0.090)	ND(0.086)	ND(0.087)	ND(0.091)	ND(0.090)	ND(0.089)	ND(0.089)	ND(0.087)	ND(0.090)	ND(0.089)	ND(0.083)	ND(0.16)	ND(0.085)
General Chemistry																			
Ignitability	NSE	present/ absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent
pH	9	pH Units	7.8	7.6	7.9	8.7	7.9	8.1	7.9	8.2	7.7	7.8	7.9	7.2	7.4	7.8	7.8	7.1	8.2
Reactivity Cyanide	NSE	mg/kg	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Reactivity Sulfide	NSE	mg/kg	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Solids, Total	NSE	%	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Specific Conductance	2000	umhos/cm	12	13	13	37	14	21	20	24	23	20	16	9.0	11	16	17	17	24

Notes:
- mg/kg=milligram per kilogram; uhoms/cm=microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0974(2) dated April 2014
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Italicized values represent laboratory detection limit equal to or above applicable RCS-1 standard
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical report

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-B4 (5-10)	TP-B5 (0-5)	TP-B5 (5-10)	TP-B6 (0-5)	TP-B6 (5-10)	TP-C1 (0-5)	TP-C1 (5-10)	TP-C2 (0-5)	TP-C2 (5-10)	TP-C3 (0-5)	TP-C3 (5-10)	TP-C4 (0-5)	TP-C4 (5-10)	TP-C5 (0-5)	TP-C5 (5-10)	TP-C6 (0-5)	TP-C6 (5-10)
Sample Date			3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019
Depth Interval (ft)			5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10
Asbestos																			
CARB 435	NSE	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Extractable Petroleum Hydrocarbons (EPH) with target Polynuclear Aro																			
C09-C18 Aliphatic Hydrocarbons (adjusted)	1000	mg/kg	--	--	--	ND(23)	--	--	ND(55)	ND(21)	--	ND(53)	ND(55)	--	--	--	--	--	ND(23)
C11-C22 Aromatic Hydrocarbons (adjusted)	1000	mg/kg	--	--	--	290	--	--	330	140	--	250	430	--	--	--	--	--	210
C11-C22 Aromatics (unadjusted)	NSE	mg/kg	--	--	--	310	--	--	350	150	--	260	470	--	--	--	--	--	240
C19-C36 Aliphatics (adjusted)	3000	mg/kg	--	--	--	200	--	--	270	100	--	210	310	--	--	--	--	--	140
Total Petroleum Hydrocarbons (TPH)																			
TPH	1000	mg/kg	390	540	640	1100	660	900	1200	1200	930	1700	1100	700	530	320	70	520	1100
Volatile Organic Compounds (VOCs)																			
Total VOCs	NSE	mg/kg	ND(0.18)	ND(0.10)	ND(0.086)	ND(0.092)	ND(0.10)	ND(0.10)	ND(0.084)	ND(0.083)	ND(0.075)	ND(0.22)	ND(0.082)	ND(0.16)	ND(0.24)	ND(0.092)	ND(0.19)	ND(0.094)	0.0027
Semivolatile Organic Compounds (SVOCs)																			
Acenaphthene	4	mg/kg	ND(0.20)	ND(0.38)	ND(0.95)	ND(0.98)	ND(0.93)	ND(0.39)	0.54	ND(0.38)	ND(0.39)	ND(1.9)	ND(0.38)	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	ND(0.96)	4.1
Acenaphthylene	1	mg/kg	0.23	ND(0.38)	ND(0.95)	ND(0.98)	ND(0.93)	ND(0.39)	ND(0.39)	0.99	ND(0.39)	*ND(1.9)*	0.56	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	ND(0.96)	ND(0.97)
Anthracene	1000	mg/kg	ND(0.20)	ND(0.38)	ND(0.95)	ND(0.98)	ND(0.93)	ND(0.39)	1.4	2.0	ND(0.39)	ND(1.9)	0.91	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	ND(0.96)	9.0
Benzo(a)Anthracene	7	mg/kg	1.1	0.97	1.9	ND(0.98)	1.5	1.1	2.3	3.2	0.96	2.3	3.0	0.65	0.75	ND(0.21)	ND(0.21)	2.1	13
Benzo(a)Pyrene	2	mg/kg	1.1	1.1	1.9	ND(0.98)	1.7	1.3	2.2	2.7	1.1	2.1	2.9	0.73	0.84	ND(0.21)	ND(0.21)	2.1	12
Benzo(b)Fluoranthene	7	mg/kg	1.5	1.4	2.6	1.0	2.2	1.5	2.5	3.2	1.1	2.4	3.3	0.88	1.0	ND(0.21)	ND(0.21)	2.5	13
Benzo(g,h,i)Perylene	1000	mg/kg	0.65	0.61	1.4	ND(0.98)	0.94	0.72	1.0	1.6	0.76	ND(1.9)	1.3	0.56	0.61	ND(0.21)	ND(0.21)	1.0	5.6
Benzo(k)Fluoranthene	70	mg/kg	0.59	0.51	ND(0.95)	ND(0.98)	ND(0.93)	0.57	0.95	1.2	0.42	ND(1.9)	1.3	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	0.97	4.8
Chrysene	70	mg/kg	1.2	1.1	2.2	ND(0.98)	1.4	1.2	2.2	2.9	1.1	2.2	2.7	0.71	0.83	ND(0.21)	ND(0.21)	2.2	12
Dibenzo(a,h)Anthracene	0.7	mg/kg	ND(0.20)	ND(0.38)	*ND(0.95)*	*ND(0.98)*	*ND(0.93)*	ND(0.39)	ND(0.39)	0.45	ND(0.39)	*ND(1.9)*	ND(0.38)	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	*ND(0.96)*	1.5
Dibenzofuran	100	mg/kg	ND(0.40)	ND(0.75)	ND(1.9)	ND(2.0)	ND(1.9)	ND(0.78)	ND(0.78)	1.2	ND(0.77)	ND(3.7)	ND(0.75)	ND(0.76)	ND(0.81)	ND(0.42)	ND(0.43)	ND(1.9)	ND(1.9)
Fluoranthene	1000	mg/kg	1.8	1.7	4.9	1.5	2.6	1.9	5.1	7.6	1.5	4.8	6.0	1.2	1.6	0.24	ND(0.21)	3.8	23
Fluorene	1000	mg/kg	ND(0.20)	ND(0.38)	ND(0.95)	ND(0.98)	ND(0.93)	ND(0.39)	0.70	0.90	ND(0.39)	ND(1.9)	0.39	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	ND(0.96)	4.2
Indeno(1,2,3-cd)Pyrene	7	mg/kg	0.73	0.71	1.4	ND(0.98)	1.0	0.67	1.1	1.8	0.73	ND(1.9)	1.5	0.53	0.60	ND(0.21)	ND(0.21)	1.1	6.4
Naphthalene	4	mg/kg	ND(0.20)	ND(0.38)	ND(0.95)	ND(0.98)	ND(0.93)	ND(0.39)	ND(0.39)	1.2	ND(0.39)	ND(1.9)	ND(0.38)	ND(0.38)	ND(0.41)	ND(0.21)	ND(0.21)	ND(0.96)	ND(0.97)
Phenanthrene	10	mg/kg	0.81	0.97	2.9	1.1	1.1	0.99	4.6	8.3	0.65	4.5	3.1	0.62	0.76	ND(0.21)	ND(0.21)	3.0	19
Pyrene	1000	mg/kg	2.2	2.2	4.3	ND(0.98)	3.0	2.4	5.5	7.1	2.2	5.0	6.4	1.3	1.5	0.28	ND(0.21)	4.5	19
Metals																			
Antimony	20	mg/kg	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.8)	ND(2.0)	ND(2.1)	ND(2.1)	ND(1.9)	ND(1.9)
Arsenic	20	mg/kg	11	5.0	5.7	4.7	4.1	4.9	5.2	5.1	5.5	4.5	3.5	7.7	4.0	6.5	6.6	5.9	5.3
Barium	1000	mg/kg	41	31	30	36	33	33	32	36	31	30	35	32	31	35	38	46	33
Beryllium	90	mg/kg	0.35	0.26	0.27	0.27	0.29	0.37	0.36	0.34	0.32	0.28	0.34	0.25	0.24	0.44	0.50	0.32	0.27
Cadmium	70	mg/kg	0.61	0.41	0.40	0.39	0.32	0.37	0.39	0.42	0.42	0.29	0.30	0.50	0.34	0.33	0.32	0.40	0.36
Chromium	100	mg/kg	16	14	14	14	14	16	17	14	17	13	16	12	14	15	18	23	15
Lead	200	mg/kg	120	50	30	46	26	63	62	50	37	27	43	79	65	16	11	79	30
Mercury	20	mg/kg	0.084	0.035	0.050	0.059	ND(0.027)	0.057	0.028	0.073	0.033	0.048	0.053	0.049	0.095	0.037	ND(0.030)	0.064	ND(0.029)
Nickel	600	mg/kg	11	11	11	11	11	12	12	12	11	12	13	9.2	8.9	10	12	10	12
Selenium	400	mg/kg	ND(4.0)	ND(3.7)	ND(3.7)	ND(3.8)	ND(3.7)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.7)	ND(3.6)	ND(3.7)	ND(3.7)	ND(3.9)	ND(4.1)	ND(4.3)	ND(3.8)	ND(3.8)
Silver	100	mg/kg	ND(0.40)	ND(0.37)	ND(0.37)	ND(0.38)	ND(0.37)	0.84	ND(0.38)	ND(0.38)	ND(0.37)	ND(0.36)	ND(0.37)	ND(0.37)	ND(0.39)	ND(0.41)	ND(0.43)	ND(0.38)	ND(0.38)
Thallium	8	mg/kg	4.2	ND(1.8)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.8)	ND(2.0)	ND(2.1)	ND(2.1)	ND(1.9)	ND(1.9)
Vanadium	400	mg/kg	20	19	22	24	22	23	22	24	20	32	31	16	18	18	21	20	21
Zinc	1000	mg/kg	69	48	42	48	38	52	49	48	46	36	52	48	58	27	28	51	39

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-B4 (5-10)	TP-B5 (0-5)	TP-B5 (5-10)	TP-B6 (0-5)	TP-B6 (5-10)	TP-C1 (0-5)	TP-C1 (5-10)	TP-C2 (0-5)	TP-C2 (5-10)	TP-C3 (0-5)	TP-C3 (5-10)	TP-C4 (0-5)	TP-C4 (5-10)	TP-C5 (0-5)	TP-C5 (5-10)	TP-C6 (0-5)	TP-C6 (5-10)
Sample Date			3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019
Depth Interval (ft)			5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10
Polychlorinated Biphenyls (PCBs)																			
Total PCBs	1	mg/kg	ND(0.093)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.087)	ND(0.092)	ND(0.091)	ND(0.089)	ND(0.090)	ND(0.088)	ND(0.089)	ND(0.091)	ND(0.096)	ND(0.096)	ND(0.10)	ND(0.089)	ND(0.088)
General Chemistry																			
Ignitability	NSE	present/ absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent
pH	9	pH Units	7.6	7.9	8.0	8.1	7.9	7.5	8.3	7.7	7.3	8.5	7.9	8.0	7.9	7.1	8.0	7.3	7.6
Reactivity Cyanide	NSE	mg/kg	ND(3.9)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(4.0)
Reactivity Sulfide	NSE	mg/kg	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Solids, Total	NSE	%	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Specific Conductance	2000	umhos/cm	7.2	7.8	13	20	5.8	12	16	8.5	9.8	20	17	9.1	17	21	18	21	17

Notes:
- mg/kg=milligram per kilogram; uhoms/cm=microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (M
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Italicized values represent laboratory detection limit equal to or above applicable RCS-1
- Full analytical results, including QA/QC information and data flags, are detailed in the la

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-D1 (0-5)	TP-D1 (5-10)	TP-D2 (0-5)	TP-D2 (5-10)	TP-D3 (0-5)	TP-D3 (5-10)	TP-D3 (10-15)	TP-D4 (0-5)	TP-D4 (5-10)	TP-D5 (0-5)	TP-D5 (5-10)	TP-D6 (0-5)	TP-D6 (5-10)	TP-D7 (0-5)	TP-D7 (5-10)	TP-E2 (0-5)	TP-E2 (5-10)
Sample Date			3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/12/2019	3/12/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	10-15	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10
Asbestos																			
CARB 435	NSE	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Extractable Petroleum Hydrocarbons (EPH) with target Polynuclear Aro																			
C09-C18 Aliphatic Hydrocarbons (adjusted)	1000	mg/kg	ND(59)	--	--	--	--	ND(23)	ND(53)	ND(22)	--	ND(25)	--	--	ND(24)	--	ND(22)	ND(55)	--
C11-C22 Aromatic Hydrocarbons (adjusted)	1000	mg/kg	250	--	--	--	--	170	360	310	--	230	--	--	210	--	220	210	--
C11-C22 Aromatics (unadjusted)	NSE	mg/kg	260	--	--	--	--	180	400	350	--	250	--	--	220	--	240	220	--
C19-C36 Aliphatics (adjusted)	3000	mg/kg	190	--	--	--	--	180	240	200	--	220	--	--	160	--	140	150	--
Total Petroleum Hydrocarbons (TPH)																			
TPH	1000	mg/kg	1200	910	860	770	840	1100	1200	1000	960	1100	510	590	1000	330	1000	1100	870
Volatile Organic Compounds (VOCs)																			
Total VOCs	NSE	mg/kg	ND(0.093)	ND(0.087)	ND(0.088)	ND(0.10)	0.0022	ND(0.090)	ND(0.10)	ND(0.12)	ND(0.17)	ND(0.24)	ND(0.15)	ND(0.085)	ND(0.089)	ND(0.089)	ND(0.075)	ND(0.076)	0.0023
Semivolatile Organic Compounds (SVOCs)																			
Acenaphthene	4	mg/kg	ND(0.41)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.41)	ND(0.39)	ND(0.37)	ND(0.73)	ND(0.92)	ND(0.84)	ND(0.19)	ND(0.97)	ND(1.0)	ND(0.38)	ND(1.9)	ND(0.75)	ND(0.79)
Acenaphthylene	1	mg/kg	0.49	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.41)	ND(0.39)	ND(0.37)	ND(0.73)	ND(0.92)	ND(0.84)	ND(0.19)	ND(0.97)	*ND(1.0)*	ND(0.38)	*ND(1.9)*	ND(0.75)	ND(0.79)
Anthracene	1000	mg/kg	1.4	0.55	ND(0.38)	0.44	ND(0.41)	0.40	0.56	0.89	ND(0.92)	ND(0.84)	ND(0.19)	ND(0.97)	1.5	ND(0.38)	ND(1.9)	ND(0.75)	ND(0.79)
Benzo(a)Anthracene	7	mg/kg	2.8	2.0	1.5	1.2	0.82	1.1	1.8	2.9	ND(0.92)	1.5	0.37	ND(0.97)	3.5	1.0	ND(1.9)	1.8	1.4
Benzo(a)Pyrene	2	mg/kg	2.7	2.2	1.6	1.4	0.88	1.3	1.8	2.6	ND(0.92)	1.7	0.43	ND(0.97)	3.2	1.0	ND(1.9)	1.7	1.5
Benzo(b)Fluoranthene	7	mg/kg	3.2	2.5	1.9	1.5	1.0	1.4	2.2	3.0	ND(0.92)	2.4	0.53	ND(0.97)	3.8	1.1	ND(1.9)	1.9	1.7
Benzo(g,h,i)Perylene	1000	mg/kg	1.5	1.0	1.0	1.0	0.64	0.82	0.83	1.5	ND(0.92)	1.3	0.28	ND(0.97)	1.3	0.58	ND(1.9)	1.2	0.99
Benzo(k)Fluoranthene	70	mg/kg	1.2	0.88	0.71	0.50	ND(0.41)	0.59	0.85	1.3	ND(0.92)	0.89	0.23	ND(0.97)	1.4	0.44	ND(1.9)	ND(0.75)	ND(0.79)
Chrysene	70	mg/kg	2.9	1.9	1.4	1.3	0.83	1.2	1.8	2.6	ND(0.92)	2.0	0.41	ND(0.97)	3.2	1.1	ND(1.9)	1.8	1.3
Dibenzo(a,h)Anthracene	0.7	mg/kg	ND(0.41)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.41)	ND(0.39)	ND(0.37)	*ND(0.73)*	*ND(0.92)*	*ND(0.84)*	ND(0.19)	*ND(0.97)*	*ND(1.0)*	ND(0.38)	*ND(1.9)*	*ND(0.75)*	*ND(0.79)*
Dibenzofuran	100	mg/kg	ND(0.82)	ND(0.76)	ND(0.76)	ND(0.78)	ND(0.82)	ND(0.78)	ND(0.74)	ND(1.5)	ND(1.8)	ND(1.7)	ND(0.38)	ND(1.9)	ND(2.0)	ND(0.76)	ND(3.7)	ND(1.5)	ND(1.6)
Fluoranthene	1000	mg/kg	5.7	3.7	2.6	2.3	1.7	2.2	3.3	6.1	0.95	4.3	0.70	ND(0.97)	8.4	2.0	2.9	3.1	2.5
Fluorene	1000	mg/kg	ND(0.41)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.41)	ND(0.39)	0.38	ND(0.73)	ND(0.92)	ND(0.84)	ND(0.19)	ND(0.97)	ND(1.0)	ND(0.38)	ND(1.9)	ND(0.75)	ND(0.79)
Indeno(1,2,3-cd)Pyrene	7	mg/kg	1.7	1.1	1.0	1.1	0.61	0.80	0.93	1.6	ND(0.92)	1.2	0.29	ND(0.97)	1.6	0.67	ND(1.9)	1.1	1.0
Naphthalene	4	mg/kg	ND(0.41)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.41)	ND(0.39)	ND(0.37)	ND(0.73)	ND(0.92)	ND(0.84)	ND(0.19)	ND(0.97)	ND(1.0)	ND(0.38)	ND(1.9)	ND(0.75)	ND(0.79)
Phenanthrene	10	mg/kg	2.4	1.9	1.4	1.1	1.1	1.4	2.4	3.6	ND(0.92)	2.3	0.28	ND(0.97)	4.8	1.3	2.2	2.2	1.3
Pyrene	1000	mg/kg	6.0	4.0	2.9	2.4	1.7	2.5	3.8	5.7	1.1	3.7	0.75	ND(0.97)	7.9	2.2	3.0	3.6	2.6
Metals																			
Antimony	20	mg/kg	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.8)	ND(2.1)	ND(1.8)	ND(2.0)	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.9)
Arsenic	20	mg/kg	3.4	4.6	4.7	4.6	6.2	9.1	5.7	3.4	3.7	4.2	4.6	6.8	3.9	6.1	4.8	4.8	3.9
Barium	1000	mg/kg	32	31	30	34	38	30	29	37	27	25	27	46	32	34	34	33	38
Beryllium	90	mg/kg	0.40	0.33	0.34	0.35	0.40	0.32	0.33	0.28	0.27	0.24	0.32	0.34	0.36	0.32	0.29	0.37	0.37
Cadmium	70	mg/kg	0.29	0.31	0.33	0.35	0.42	0.57	0.35	0.31	0.27	0.65	0.34	0.44	0.30	0.41	0.39	0.37	0.40
Chromium	100	mg/kg	17	15	15	17	18	14	15	14	15	14	15	13	19	15	17	15	16
Lead	200	mg/kg	40	47	53	51	45	110	46	56	25	25	20	110	32	71	40	41	53
Mercury	20	mg/kg	0.055	0.059	0.061	0.045	0.086	0.071	0.031	0.28	ND(0.027)	ND(0.032)	ND(0.028)	0.11	0.041	0.079	0.038	0.046	0.045
Nickel	600	mg/kg	15	12	12	13	13	10	13	12	13	10	13	9.9	15	10	13	13	13
Selenium	400	mg/kg	ND(4.1)	ND(3.7)	ND(3.7)	ND(3.8)	ND(3.9)	ND(3.9)	ND(3.7)	ND(3.6)	ND(3.7)	ND(4.2)	ND(3.7)	ND(3.9)	ND(4.0)	ND(3.8)	ND(3.8)	ND(3.7)	ND(3.9)
Silver	100	mg/kg	ND(0.41)	ND(0.37)	ND(0.37)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.37)	ND(0.36)	ND(0.37)	ND(0.42)	ND(0.37)	ND(0.39)	ND(0.40)	ND(0.38)	ND(0.38)	ND(0.37)	ND(0.39)
Thallium	8	mg/kg	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.8)	ND(2.1)	ND(1.8)	ND(2.0)	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.9)
Vanadium	400	mg/kg	27	25	24	24	26	21	26	26	29	20	23	19	32	20	25	29	28
Zinc	1000	mg/kg	52	46	50	50	82	68	49	54	37	52	36	56	45	54	51	53	51

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-D1 (0-5)	TP-D1 (5-10)	TP-D2 (0-5)	TP-D2 (5-10)	TP-D3 (0-5)	TP-D3 (5-10)	TP-D3 (10-15)	TP-D4 (0-5)	TP-D4 (5-10)	TP-D5 (0-5)	TP-D5 (5-10)	TP-D6 (0-5)	TP-D6 (5-10)	TP-D7 (0-5)	TP-D7 (5-10)	TP-E2 (0-5)	TP-E2 (5-10)
Sample Date			3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/11/2019	3/12/2019	3/12/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	10-15	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10
Polychlorinated Biphenyls (PCBs)																			
Total PCBs	1	mg/kg	ND(0.098)	ND(0.090)	ND(0.090)	ND(0.092)	ND(0.097)	ND(0.093)	ND(0.088)	ND(0.087)	ND(0.088)	ND(0.095)	ND(0.085)	ND(0.093)	ND(0.091)	ND(0.088)	ND(0.090)	ND(0.088)	ND(0.093)
General Chemistry																			
Ignitability	NSE	present/ absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent
pH	9	pH Units	7.9	7.9	7.8	7.7	7.7	7.7	8.2	8.2	7.8	8.2	8.5	7.7	7.7	7.7	8.2	7.7	8.0
Reactivity Cyanide	NSE	mg/kg	ND(3.9)	ND(4.0)	ND(4.0)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(4.0)	ND(3.9)	ND(4.0)	ND(4.0)	ND(4.0)	ND(3.9)	ND(3.9)
Reactivity Sulfide	NSE	mg/kg	ND(20)	ND(20)	ND(20)	ND(19)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Solids, Total	NSE	%	ND(20)	ND(20)	ND(20)	ND(19)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Specific Conductance	2000	umhos/cm	13	11	8.8	8.7	11	8.0	22	24	6.2	17	11	9.0	23	11	18	18	15

Notes:
- mg/kg=milligram per kilogram; uhoms/cm=microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (M
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Italicized values represent laboratory detection limit equal to or above applicable RCS-1
- Full analytical results, including QA/QC information and data flags, are detailed in the la

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-E3 (0-5)	TP-E3 (5-10)	TP-E4 (0-5)	TP-E4 (5-10)	TP-E5 (0-5)	TP-E5 (5-10)	TP-E5 (10-15)	TP-E6 (0-5)	TP-E6 (5-10)	TP-E7 (0-5)	TP-E7 (5-10)	TP-E8 (0-5)	TP-E8 (5-10)	TP-F3 (0-5)	TP-F3 (5-10)	TP-F4 (0-5)	TP-F4 (5-10)
Sample Date			3/12/2019	3/12/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/12/2019	3/12/2019	3/1/2019	3/1/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	10-15	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10
Asbestos																			
CARB 435	NSE	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Extractable Petroleum Hydrocarbons (EPH) with target Polynuclear Aro																			
C09-C18 Aliphatic Hydrocarbons (adjusted)	1000	mg/kg	--	ND(24)	--	--	--	--	--	--	--	--	--	--	--	ND(55)	--	--	--
C11-C22 Aromatic Hydrocarbons (adjusted)	1000	mg/kg	--	170	--	--	--	--	--	--	--	--	--	--	--	280	--	--	--
C11-C22 Aromatics (unadjusted)	NSE	mg/kg	--	190	--	--	--	--	--	--	--	--	--	--	--	290	--	--	--
C19-C36 Aliphatics (adjusted)	3000	mg/kg	--	130	--	--	--	--	--	--	--	--	--	--	--	220	--	--	--
Total Petroleum Hydrocarbons (TPH)																			
TPH	1000	mg/kg	780	1100	430	680	590	470	110	980	54	430	160	370	300	1300	910	390	310
Volatile Organic Compounds (VOCs)																			
Total VOCs	NSE	mg/kg	ND(0.077)	ND(0.11)	ND(0.20)	0.0052	0.0026	0.0028	ND(0.18)	ND(0.093)	ND(0.097)	ND(0.10)	ND(0.098)	0.0021	0.0036	ND(0.086)	ND(0.096)	ND(0.16)	0.0049
Semivolatile Organic Compounds (SVOCs)																			
Acenaphthene	4	mg/kg	ND(0.37)	ND(0.40)	ND(0.19)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	ND(0.38)	ND(0.39)	ND(0.76)	ND(0.82)	ND(0.20)	ND(0.19)
Acenaphthylene	1	mg/kg	ND(0.37)	ND(0.40)	ND(0.19)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	ND(0.38)	ND(0.39)	ND(0.76)	ND(0.82)	ND(0.20)	ND(0.19)
Anthracene	1000	mg/kg	ND(0.37)	1.2	0.55	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	0.90	ND(0.39)	ND(0.76)	ND(0.82)	ND(0.20)	ND(0.19)
Benzo(a)Anthracene	7	mg/kg	0.42	3.4	1.7	0.45	ND(0.94)	ND(0.37)	ND(0.19)	1.6	ND(0.37)	0.55	ND(0.36)	1.6	0.45	1.5	ND(0.82)	0.49	0.39
Benzo(a)Pyrene	2	mg/kg	0.56	3.1	1.6	0.49	ND(0.94)	ND(0.37)	ND(0.19)	1.7	ND(0.37)	0.60	ND(0.36)	1.5	0.53	1.6	ND(0.82)	0.53	0.42
Benzo(b)Fluoranthene	7	mg/kg	0.67	3.6	1.9	0.57	0.98	ND(0.37)	ND(0.19)	2.0	ND(0.37)	0.84	ND(0.36)	1.7	0.60	1.8	ND(0.82)	0.60	0.45
Benzo(g,h,i)Perylene	1000	mg/kg	ND(0.37)	1.5	0.71	0.37	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	0.89	ND(0.39)	0.93	ND(0.82)	0.25	0.22
Benzo(k)Fluoranthene	70	mg/kg	ND(0.37)	1.4	0.72	0.21	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	0.62	ND(0.39)	ND(0.76)	ND(0.82)	0.26	ND(0.19)
Chrysene	70	mg/kg	0.48	3.3	1.5	0.46	ND(0.94)	ND(0.37)	ND(0.19)	1.9	ND(0.37)	0.64	ND(0.36)	1.5	0.48	1.5	ND(0.82)	0.56	0.44
Dibenzo(a,h)Anthracene	0.7	mg/kg	ND(0.37)	ND(0.40)	ND(0.19)	ND(0.19)	*ND(0.94)*	ND(0.37)	ND(0.19)	*ND(0.94)*	ND(0.37)	ND(0.39)	ND(0.36)	ND(0.38)	ND(0.39)	*ND(0.76)*	*ND(0.82)*	ND(0.20)	ND(0.19)
Dibenzofuran	100	mg/kg	ND(0.75)	ND(0.80)	ND(0.38)	ND(0.39)	ND(1.9)	ND(0.75)	ND(0.38)	ND(1.9)	ND(0.74)	ND(0.79)	ND(0.73)	ND(0.76)	ND(0.78)	ND(1.5)	ND(1.6)	ND(0.39)	ND(0.38)
Fluoranthene	1000	mg/kg	0.70	6.6	3.0	0.84	1.4	ND(0.37)	ND(0.19)	2.9	ND(0.37)	0.92	ND(0.36)	3.7	0.75	2.9	0.83	0.80	0.54
Fluorene	1000	mg/kg	ND(0.37)	ND(0.40)	0.21	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	0.47	ND(0.39)	ND(0.76)	ND(0.82)	ND(0.20)	ND(0.19)
Indeno(1,2,3-cd)Pyrene	7	mg/kg	ND(0.37)	1.7	0.87	0.34	ND(0.94)	ND(0.37)	ND(0.19)	0.96	ND(0.37)	0.41	ND(0.36)	1.0	ND(0.39)	0.95	ND(0.82)	0.25	0.23
Naphthalene	4	mg/kg	ND(0.37)	ND(0.40)	ND(0.19)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.19)	ND(0.94)	ND(0.37)	ND(0.39)	ND(0.36)	ND(0.38)	ND(0.39)	ND(0.76)	ND(0.82)	ND(0.20)	ND(0.19)
Phenanthrene	10	mg/kg	ND(0.37)	4.2	2.0	0.43	ND(0.94)	ND(0.37)	ND(0.19)	1.4	ND(0.37)	ND(0.39)	ND(0.36)	3.3	ND(0.39)	1.5	ND(0.82)	0.62	0.31
Pyrene	1000	mg/kg	0.81	7.5	3.4	1.0	1.4	0.40	ND(0.19)	3.4	ND(0.37)	1.2	ND(0.36)	3.6	0.95	3.0	0.90	1.1	0.82
Metals																			
Antimony	20	mg/kg	ND(1.8)	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	9.3	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(2.0)	ND(2.0)	ND(1.8)
Arsenic	20	mg/kg	5.2	5.3	3.7	4.9	4.4	5.9	4.3	5.1	4.4	8.7	3.7	6.4	6.6	4.0	4.7	7.0	5.8
Barium	1000	mg/kg	33	42	37	34	38	26	29	28	27	34	22	31	32	32	34	31	28
Beryllium	90	mg/kg	0.38	0.42	0.34	0.34	0.33	0.38	0.30	0.32	0.33	0.37	0.23	0.33	0.34	0.35	0.34	0.37	0.37
Cadmium	70	mg/kg	0.34	0.40	0.31	0.36	0.35	0.33	0.31	0.41	0.29	0.52	0.22	0.42	0.43	0.34	0.40	0.44	0.39
Chromium	100	mg/kg	17	18	14	16	15	15	14	14	15	15	8.5	15	16	17	13	16	16
Lead	200	mg/kg	25	53	74	23	26	19	37	48	8.9	780	300	59	41	39	26	34	32
Mercury	20	mg/kg	0.031	0.072	0.075	ND(0.028)	ND(0.026)	ND(0.026)	ND(0.028)	ND(0.029)	ND(0.026)	0.030	ND(0.026)	0.040	0.036	0.045	0.030	ND(0.029)	0.028
Nickel	600	mg/kg	14	14	12	13	12	13	11	11	10	11	7.2	12	12	14	12	12	11
Selenium	400	mg/kg	ND(3.6)	ND(4.0)	ND(3.7)	ND(3.7)	ND(3.6)	ND(3.6)	ND(3.8)	ND(3.7)	ND(3.7)	ND(3.9)	ND(3.5)	ND(3.8)	ND(3.8)	ND(3.7)	ND(4.1)	ND(3.9)	ND(3.7)
Silver	100	mg/kg	ND(0.36)	ND(0.40)	ND(0.37)	ND(0.37)	ND(0.36)	ND(0.36)	ND(0.38)	ND(0.37)	ND(0.37)	ND(0.39)	ND(0.35)	ND(0.38)	ND(0.38)	ND(0.37)	ND(0.41)	ND(0.39)	ND(0.37)
Thallium	8	mg/kg	ND(1.8)	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(2.0)	ND(2.0)	ND(1.8)
Vanadium	400	mg/kg	25	27	27	25	26	24	17	22	17	20	13	22	24	26	21	21	19
Zinc	1000	mg/kg	44	59	50	36	39	33	48	48	26	56	44	51	48	47	67	38	38

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-E3 (0-5)	TP-E3 (5-10)	TP-E4 (0-5)	TP-E4 (5-10)	TP-E5 (0-5)	TP-E5 (5-10)	TP-E5 (10-15)	TP-E6 (0-5)	TP-E6 (5-10)	TP-E7 (0-5)	TP-E7 (5-10)	TP-E8 (0-5)	TP-E8 (5-10)	TP-F3 (0-5)	TP-F3 (5-10)	TP-F4 (0-5)	TP-F4 (5-10)
Sample Date			3/12/2019	3/12/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/12/2019	3/12/2019	3/1/2019	3/1/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	10-15	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10
Polychlorinated Biphenyls (PCBs)																			
Total PCBs	1	mg/kg	ND(0.089)	ND(0.096)	ND(0.083)	ND(0.088)	ND(0.085)	ND(0.082)	ND(0.085)	ND(0.085)	ND(0.083)	ND(0.090)	ND(0.081)	ND(0.090)	ND(0.089)	ND(0.089)	ND(0.098)	ND(0.088)	ND(0.086)
General Chemistry																			
Ignitability	NSE	present/ absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent
pH	9	pH Units	8.2	8.1	8.5	7.9	7.9	8.6	7.7	8.1	8.3	7.2	7.6	8.2	8.3	7.7	7.9	7.7	7.6
Reactivity Cyanide	NSE	mg/kg	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)
Reactivity Sulfide	NSE	mg/kg	ND(20)	ND(20)	ND(19)	ND(19)	ND(19)	ND(20)	ND(19)	ND(19)	ND(20)	ND(20)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Solids, Total	NSE	%	ND(20)	ND(20)	ND(19)	ND(19)	ND(19)	ND(20)	ND(19)	ND(19)	ND(20)	ND(20)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Specific Conductance	2000	umhos/cm	13	19	10	10	12	11	7.0	9.3	9.3	10	18	11	9.8	17	31	11	16

Notes:
- mg/kg=milligram per kilogram; uhoms/cm=microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (M
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Italicized values represent laboratory detection limit equal to or above applicable RCS-1
- Full analytical results, including QA/QC information and data flags, are detailed in the la

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-F5 (0-5)	TP-F5 (5-10)	TP-F6 (0-5)	TP-F6 (5-10)	TP-F7 (0-5)	TP-F7 (5-10)	TP-F8 (0-5)	TP-F8 (5-10)	TP-G6 (0-5)	TP-G6 (5-10)	TP-G7 (0-5)	TP-G7 (5-10)	TP-V-101	TP-V-102	TP-V-103	TP-V-104	TP-V-105
Sample Date			3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	-	-	-	-	-
Asbestos																			
CARB 435	NSE	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Extractable Petroleum Hydrocarbons (EPH) with target Polynuclear Aro																			
C09-C18 Aliphatic Hydrocarbons (adjusted)	1000	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	ND(22)	--	--	--
C11-C22 Aromatic Hydrocarbons (adjusted)	1000	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	110	--	--	--
C11-C22 Aromatics (unadjusted)	NSE	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	120	--	--	--
C19-C36 Aliphatics (adjusted)	3000	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	81	--	--	--
Total Petroleum Hydrocarbons (TPH)																			
TPH	1000	mg/kg	640	680	420	510	580	560	250	380	400	430	360	430	500	3100	530	960	180
Volatile Organic Compounds (VOCs)																			
Total VOCs	NSE	mg/kg	ND(0.20)	0.004	0.0026	ND(0.12)	ND(0.11)	ND(0.082)	ND(0.11)	ND(0.089)	ND(0.12)	ND(0.12)	ND(0.11)	0.0026	ND(0.16)	ND(0.17)	ND(0.28)	ND(0.18)	ND(0.23)
Semivolatile Organic Compounds (SVOCs)																			
Acenaphthene	4	mg/kg	ND(0.97)	ND(0.96)	ND(0.37)	ND(0.40)	ND(0.37)	ND(0.97)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Acenaphthylene	1	mg/kg	ND(0.97)	ND(0.96)	ND(0.37)	ND(0.40)	ND(0.37)	ND(0.97)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Anthracene	1000	mg/kg	ND(0.97)	ND(0.96)	ND(0.37)	ND(0.40)	ND(0.37)	ND(0.97)	0.46	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Benzo(a)Anthracene	7	mg/kg	1.0	ND(0.96)	1.1	1.2	0.81	ND(0.97)	1.3	0.50	0.95	0.64	0.57	0.57	1.2	1.3	0.22	ND(0.38)	0.37
Benzo(a)Pyrene	2	mg/kg	1.1	ND(0.96)	1.2	1.3	0.90	ND(0.97)	1.3	0.58	0.98	0.73	0.58	0.58	1.3	1.2	0.24	ND(0.38)	0.32
Benzo(b)Fluoranthene	7	mg/kg	1.5	1.1	1.4	1.6	1.1	ND(0.97)	1.4	0.67	1.2	0.86	0.71	0.68	1.4	1.4	0.26	0.42	0.36
Benzo(g,h,i)Perylene	1000	mg/kg	ND(0.97)	ND(0.96)	0.65	0.68	0.45	ND(0.97)	0.85	0.43	0.57	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Benzo(k)Fluoranthene	70	mg/kg	ND(0.97)	ND(0.96)	0.53	0.66	0.46	ND(0.97)	0.51	ND(0.38)	0.49	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Chrysene	70	mg/kg	1.1	ND(0.96)	1.2	1.4	0.92	ND(0.97)	1.4	0.57	0.95	0.72	0.60	0.58	1.1	1.2	ND(0.20)	ND(0.38)	0.33
Dibenzo(a,h)Anthracene	0.7	mg/kg	*ND(0.97)*	*ND(0.96)*	ND(0.37)	ND(0.40)	ND(0.37)	*ND(0.97)*	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	*ND(0.75)*	*ND(0.93)*	ND(0.20)	ND(0.38)	ND(0.20)
Dibenzofuran	100	mg/kg	ND(1.9)	ND(1.9)	ND(0.75)	ND(0.79)	ND(0.75)	ND(1.9)	ND(0.76)	ND(0.76)	ND(0.75)	ND(0.79)	ND(0.77)	ND(0.77)	ND(1.5)	ND(1.9)	ND(0.41)	ND(0.77)	ND(0.41)
Fluoranthene	1000	mg/kg	1.8	1.2	2.2	2.7	1.5	ND(0.97)	2.7	0.89	1.6	1.1	0.96	1.1	2.0	2.2	0.41	ND(0.38)	0.77
Fluorene	1000	mg/kg	ND(0.97)	ND(0.96)	ND(0.37)	ND(0.40)	ND(0.37)	ND(0.97)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Indeno(1,2,3-cd)Pyrene	7	mg/kg	ND(0.97)	ND(0.96)	0.69	0.75	0.54	ND(0.97)	0.96	0.44	0.65	0.47	ND(0.39)	ND(0.38)	0.86	ND(0.93)	ND(0.20)	ND(0.38)	0.21
Naphthalene	4	mg/kg	ND(0.97)	ND(0.96)	ND(0.37)	ND(0.40)	ND(0.37)	ND(0.97)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.38)	ND(0.75)	ND(0.93)	ND(0.20)	ND(0.38)	ND(0.20)
Phenanthrene	10	mg/kg	ND(0.97)	ND(0.96)	1.1	1.6	0.97	ND(0.97)	2.2	0.40	0.93	0.62	0.58	0.82	1.1	ND(0.93)	0.21	ND(0.38)	0.76
Pyrene	1000	mg/kg	2.2	1.5	2.3	2.8	1.7	ND(0.97)	3.1	1.1	1.9	1.3	1.2	1.2	2.2	2.5	0.42	0.53	0.87
Metals																			
Antimony	20	mg/kg	ND(2.0)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.8)	ND(2.0)	ND(1.9)	ND(2.0)
Arsenic	20	mg/kg	4.8	4.4	4.1	4.5	6.7	5.9	6.4	6.9	5.3	5.3	5.0	11	4.3	5.3	6.9	4.7	4.3
Barium	1000	mg/kg	29	28	46	37	30	30	38	34	31	28	37	38	25	42	56	37	39
Beryllium	90	mg/kg	0.28	0.31	0.31	0.32	0.35	0.35	0.35	0.35	0.35	0.30	0.39	0.40	0.31	0.33	0.54	0.28	0.35
Cadmium	70	mg/kg	0.56	0.49	0.37	0.55	0.51	0.41	0.43	0.45	0.42	0.50	0.36	0.56	0.26	0.38	0.39	0.30	0.26
Chromium	100	mg/kg	21	15	18	16	15	15	14	15	16	15	16	15	13	17	25	16	18
Lead	200	mg/kg	25	26	63	51	57	34	74	69	56	49	53	50	18	31	20	24	15
Mercury	20	mg/kg	ND(0.028)	ND(0.027)	0.039	0.048	0.038	0.032	0.050	0.041	0.040	0.35	0.043	0.031	ND(0.027)	0.034	0.040	0.073	ND(0.031)
Nickel	600	mg/kg	12	11	13	14	12	12	11	12	11	10	13	12	11	14	18	11	13
Selenium	400	mg/kg	ND(3.9)	ND(3.7)	ND(3.7)	ND(3.8)	ND(3.6)	ND(3.7)	ND(3.6)	ND(3.7)	ND(3.7)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.6)	ND(3.7)	ND(4.0)	ND(3.8)	ND(3.9)
Silver	100	mg/kg	ND(0.39)	ND(0.37)	ND(0.37)	ND(0.38)	ND(0.36)	ND(0.37)	ND(0.36)	ND(0.37)	ND(0.37)	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.36)	ND(0.37)	ND(0.40)	ND(0.38)	ND(0.39)
Thallium	8	mg/kg	ND(2.0)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.8)	ND(1.9)	ND(1.8)	ND(1.8)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)	ND(1.8)	ND(2.0)	ND(1.9)	ND(2.0)
Vanadium	400	mg/kg	20	21	26	25	21	23	20	21	21	18	25	24	22	26	32	19	23
Zinc	1000	mg/kg	67	49	60	66	46	41	52	55	50	57	51	46	32	42	48	48	37

Table 1
Summary of Stockpile Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP RCS-1	Units	TP-F5 (0-5)	TP-F5 (5-10)	TP-F6 (0-5)	TP-F6 (5-10)	TP-F7 (0-5)	TP-F7 (5-10)	TP-F8 (0-5)	TP-F8 (5-10)	TP-G6 (0-5)	TP-G6 (5-10)	TP-G7 (0-5)	TP-G7 (5-10)	TP-V-101	TP-V-102	TP-V-103	TP-V-104	TP-V-105
Sample Date			3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/1/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019	3/12/2019
Depth Interval (ft)			0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)																			
Total PCBs	1	mg/kg	ND(0.092)	ND(0.087)	ND(0.087)	ND(0.090)	ND(0.084)	ND(0.089)	ND(0.086)	ND(0.084)	ND(0.088)	ND(0.094)	ND(0.087)	ND(0.089)	ND(0.083)	ND(0.088)	ND(0.094)	ND(0.085)	ND(0.094)
General Chemistry																			
Ignitability	NSE	present/ absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent	absent
pH	9	pH Units	7.9	8.0	8.4	8.6	7.7	7.9	7.9	8.0	8.0	7.8	8.0	7.7	7.7	8.1	7.8	7.3	7.7
Reactivity Cyanide	NSE	mg/kg	ND(3.9)	ND(4.0)	ND(4.0)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(3.9)	ND(4.0)	ND(3.9)	ND(4.0)	ND(4.0)	ND(4.0)
Reactivity Sulfide	NSE	mg/kg	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(19)	ND(19)	ND(20)	ND(20)	ND(19)	ND(20)	ND(19)	ND(20)	ND(20)	ND(20)
Solids, Total	NSE	%	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(19)	ND(19)	ND(20)	ND(20)	ND(19)	ND(20)	ND(19)	82.4	88.1	82.2
Specific Conductance	2000	umhos/cm	9.0	6.7	19	21	15	11	8.1	16	7.5	15	13	11	14	23	16	9.3	17

Notes:
- mg/kg=milligram per kilogram; uhoms/cm=microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (M
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Italicized values represent laboratory detection limit equal to or above applicable RCS-1
- Full analytical results, including QA/QC information and data flags, are detailed in the la

Table 2
Summary of Soil Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP	Units	V-107 (5-10)	V-108 (0-5)	V-109 (5-10)	V-110 (5-10)	V-111 (0-10)	V-112 (0-5)	V-113 (0-5)	V-114 (5-10)	V-115 (5-10)	V-116 (0-5)
Sample Date	RCS-1		3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/28/2019	3/28/2019
Total Petroleum Hydrocarbons (TPH)												
TPH	1000	mg/kg	ND(8.4)	ND(8.8)	ND(8.7)	11	13	ND(8.6)	ND(8.9)	27	--	--
Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,1,1-Trichloroethane (1,1,1-TCA)	30	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,1,2-Trichloroethane	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,1-Dichloroethane (1,1-DCA)	0.4	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,1-Dichloroethene (1,1-DCE)	3	mg/kg	ND(0.0030)	ND(0.0035)	ND(0.0059)	ND(0.0046)	ND(0.0038)	ND(0.0037)	ND(0.0036)	ND(0.0042)	--	--
1,1-Dichloropropene	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2,3-Trichlorobenzene	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2,3-Trichloropropane	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2,4-Trichlorobenzene	2	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2,4-Trimethylbenzene	1000	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2-Dibromo-3-Chloropropane	10	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2-Dibromoethane	0.1	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
1,2-Dichlorobenzene	9	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2-Dichloroethane (1,2-DCA)	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2-Dichloroethylene, trans (1,2-DCE, trans)	1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,2-Dichloropropane	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,3,5-Trimethylbenzene	10	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,3-Dichlorobenzene (1,3-DCB)	3	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,3-Dichloropropane	500	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
1,3-Dichloropropene, cis	0.01	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
1,3-Dichloropropene, trans	0.01	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
1,4-Dichlorobenzene	0.7	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
1,4-Dioxane	0.2	mg/kg	ND(0.076)	ND(0.088)	ND(0.15)	ND(0.11)	ND(0.094)	ND(0.093)	ND(0.089)	ND(0.10)	--	--
2,2-Dichloropropane	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
2-Hexanone	100	mg/kg	ND(0.015)	ND(0.018)	ND(0.030)	ND(0.023)	ND(0.019)	ND(0.019)	ND(0.018)	ND(0.021)	--	--
Acetone	6	mg/kg	ND(0.076)	ND(0.088)	ND(0.15)	ND(0.11)	ND(0.094)	ND(0.093)	ND(0.089)	ND(0.10)	--	--
Benzene	2	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Bromobenzene	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Bromochloromethane (Chlorobromomethane)	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Bromodichloromethane	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Bromoform	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Bromomethane	0.5	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--

Table 2
Summary of Soil Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP	Units	V-107 (5-10)	V-108 (0-5)	V-109 (5-10)	V-110 (5-10)	V-111 (0-10)	V-112 (0-5)	V-113 (0-5)	V-114 (5-10)	V-115 (5-10)	V-116 (0-5)
Sample Date	RCS-1		3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/28/2019	3/28/2019
Carbon Disulfide	100	mg/kg	ND(0.0046)	ND(0.0053)	ND(0.0089)	ND(0.0068)	ND(0.0057)	ND(0.0056)	ND(0.0053)	ND(0.0062)	--	--
Carbon Tetrachloride	5	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Chlorobenzene	1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Chloroethane	100	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Chloroform	0.2	mg/kg	ND(0.0030)	ND(0.0035)	ND(0.0059)	ND(0.0046)	ND(0.0038)	ND(0.0037)	ND(0.0036)	ND(0.0042)	--	--
Chloromethane	100	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Dibromochloromethane	0.005	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
Dibromomethane	500	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Dichlorodifluoromethane	1000	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Dichloroethylene, cis 1,2 (cis-1,2 DCE)	0.1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Ethyl Ether	100	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Ethylbenzene	40	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Ethyl-Tert-Butyl-Ether (Tert-Butylethyl Ether)	NSE	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
Hexachlorobutadiene	30	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Isopropyl Benzene	1000	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Isopropyl Ether	100	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
Methyl Ethyl Ketone (MEK)	4	mg/kg	ND(0.030)	ND(0.035)	ND(0.059)	ND(0.046)	ND(0.038)	ND(0.037)	ND(0.036)	ND(0.042)	--	--
Methyl Isobutyl Ketone (MIBK)	0.4	mg/kg	ND(0.015)	ND(0.018)	ND(0.030)	ND(0.023)	ND(0.019)	ND(0.019)	ND(0.018)	ND(0.021)	--	--
Methyl Tert-Butyl Ether	0.1	mg/kg	ND(0.0030)	ND(0.0035)	ND(0.0059)	ND(0.0046)	ND(0.0038)	ND(0.0037)	ND(0.0036)	ND(0.0042)	--	--
Methylene Chloride	0.1	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Naphthalene	4	mg/kg	ND(0.0030)	ND(0.0035)	ND(0.0059)	ND(0.0046)	ND(0.0038)	ND(0.0037)	ND(0.0036)	ND(0.0042)	--	--
n-Butylbenzene	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
o-Chlorotoluene	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
o-Xylene	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
p/m-Xylene	100	mg/kg	ND(0.0030)	ND(0.0035)	ND(0.0059)	ND(0.0046)	ND(0.0038)	ND(0.0037)	ND(0.0036)	ND(0.0042)	--	--
p-Chlorotoluene (4-Chlorotoluene)	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
p-Cymene	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Propylbenzene	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Sec-Butylbenzene	NSE	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Styrene	3	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Tert-Butylbenzene	100	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Tertiary-Amyl Methyl Ether (TAME)	NSE	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
Tetrachloroethane	0.005	mg/kg	ND(0.00076)	ND(0.00088)	ND(0.0015)	ND(0.0011)	ND(0.00094)	ND(0.00093)	ND(0.00089)	ND(0.0010)	--	--
Tetrachloroethylene (PCE)	1	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Tetrahydrofuran	500	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Toluene	30	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	0.0045	0.0041	0.0030	ND(0.0018)	0.0068	--	--
Trichloroethylene (TCE)	0.3	mg/kg	ND(0.0015)	ND(0.0018)	ND(0.0030)	ND(0.0023)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0021)	--	--
Trichlorofluoromethane	1000	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Vinyl Chloride	0.7	mg/kg	ND(0.0076)	ND(0.0088)	ND(0.015)	ND(0.011)	ND(0.0094)	ND(0.0093)	ND(0.0089)	ND(0.010)	--	--
Total VOCs	NSE	mg/kg	ND(0.076)	ND(0.088)	ND(0.15)	0.0045	0.0041	0.003	ND(0.089)	0.0068	--	--

Table 2
Summary of Soil Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP	Units	V-107 (5-10)	V-108 (0-5)	V-109 (5-10)	V-110 (5-10)	V-111 (0-10)	V-112 (0-5)	V-113 (0-5)	V-114 (5-10)	V-115 (5-10)	V-116 (0-5)
Sample Date	RCS-1		3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/28/2019	3/28/2019
Semivolatile Organic Compounds (SVOCs)												
1,2,4-Trichlorobenzene	2	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
1,2-Dichlorobenzene	9	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
1,2-Diphenylhydrazine	50	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
1,3-Dichlorobenzene (1,3-DCB)	3	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
1,4-Dichlorobenzene	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2,4,5-Trichlorophenol	4	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2,4,6-Trichlorophenol	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2,4-Dichlorophenol	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2,4-Dimethylphenol	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2,4-Dinitrophenol	3	mg/kg	ND(0.66)	ND(0.69)	ND(0.69)	ND(0.68)	ND(0.68)	ND(0.68)	ND(0.71)	ND(0.69)	--	--
2,4-Dinitrotoluene	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2,6-Dinitrotoluene	100	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2-Chloronaphthalene	1000	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2-Chlorophenol	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2-Methylnaphthalene	0.7	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
2-Methylphenol (o-Cresol)	500	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
2-Nitrophenol (o-Nitrophenol)	100	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
3,3-Dichlorobenzidine	3	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
3-Methylphenol/4-Methylphenol	NSE	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
4-Bromophenyl Phenyl Ether	100	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Acenaphthene	4	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Acenaphthylene	1	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Acetophenone	1000	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Aniline	1000	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Anthracene	1000	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Benzo(a)Anthracene	7	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Benzo(a)Pyrene	2	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Benzo(b)Fluoranthene	7	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Benzo(g,h,i)Perylene	1000	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Benzo(k)Fluoranthene	70	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Bis (2-Chloroethyl) Ether	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Bis(2-Ethylhexyl)Phthalate	90	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Butyl Benzyl Phthalate	100	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Chrysene	70	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Dibenzo(a,h)Anthracene	0.7	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Dibenzofuran	100	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Dichloroisopropyl Ether	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Dichloromethoxy Ethane	500	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Diethyl Phthalate	10	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--

Table 2
Summary of Soil Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP	Units	V-107 (5-10)	V-108 (0-5)	V-109 (5-10)	V-110 (5-10)	V-111 (0-10)	V-112 (0-5)	V-113 (0-5)	V-114 (5-10)	V-115 (5-10)	V-116 (0-5)
Sample Date	RCS-1		3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/28/2019	3/28/2019
Dimethyl Phthalate	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Fluoranthene	1000	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Fluorene	1000	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Hexachlorobenzene	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Hexachlorobutadiene	30	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Hexachloroethane	0.7	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Indeno(1,2,3-cd)Pyrene	7	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Isophorone	100	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Naphthalene	4	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
n-Butyl Phthalate	50	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
n-Dioctyl Phthalate	1000	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Nitrobenzene	500	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
p-Chloroaniline	1	mg/kg	ND(0.66)	ND(0.69)	ND(0.69)	ND(0.68)	ND(0.68)	ND(0.68)	ND(0.71)	ND(0.69)	--	--
Pentachlorophenol	3	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
Phenanthrene	10	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Phenol	1	mg/kg	ND(0.34)	ND(0.36)	ND(0.36)	ND(0.35)	ND(0.35)	ND(0.35)	ND(0.36)	ND(0.36)	--	--
p-Nitrophenol	100	mg/kg	ND(0.66)	ND(0.69)	ND(0.69)	ND(0.68)	ND(0.68)	ND(0.68)	ND(0.71)	ND(0.69)	--	--
Pyrene	1000	mg/kg	ND(0.17)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	--	--
Total SVOCs	NSE	mg/kg	ND(0.66)	ND(0.69)	ND(0.69)	ND(0.68)	ND(0.68)	ND(0.68)	ND(0.71)	ND(0.69)	--	--
Metals												
Antimony	20	mg/kg	ND(1.7)	ND(1.7)	ND(1.8)	ND(1.7)	ND(1.7)	ND(1.8)	ND(1.8)	ND(1.7)	--	--
Arsenic	20	mg/kg	11	5.6	6.5	6.4	11	5.0	2.8	4.5	--	--
Barium	1000	mg/kg	27	30	33	26	32	21	15	31	--	--
Beryllium	90	mg/kg	0.27	0.28	0.28	0.26	0.31	0.25	ND(0.18)	0.26	--	--
Cadmium	70	mg/kg	0.34	0.19	0.21	0.23	0.37	ND(0.18)	ND(0.18)	ND(0.17)	--	--
Chromium	100	mg/kg	12	12	12	33	11	9.1	11	15	--	--
Lead	200	mg/kg	6.1	5.2	5.0	3.9	5.6	3.9	2.3	5.8	--	--
Mercury	20	mg/kg	ND(0.025)	ND(0.026)	ND(0.026)	ND(0.028)	ND(0.026)	ND(0.027)	ND(0.026)	ND(0.026)	--	--
Nickel	600	mg/kg	9.3	9.4	9.6	11	11	7.1	4.8	12	--	--
Selenium	400	mg/kg	ND(3.4)	ND(3.5)	ND(3.5)	ND(3.5)	ND(3.4)	ND(3.5)	ND(3.6)	ND(3.4)	--	--
Silver	100	mg/kg	0.42	0.41	0.37	ND(0.35)	0.44	ND(0.35)	ND(0.36)	0.57	--	--
Thallium	8	mg/kg	ND(1.7)	ND(1.7)	ND(1.8)	ND(1.7)	ND(1.7)	ND(1.8)	ND(1.8)	ND(1.7)	--	--
Vanadium	400	mg/kg	17	17	17	17	17	12	9.6	23	--	--
Zinc	1000	mg/kg	26	25	23	24	25	17	11	30	--	--

Table 2
Summary of Soil Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	MCP	Units	V-107 (5-10)	V-108 (0-5)	V-109 (5-10)	V-110 (5-10)	V-111 (0-10)	V-112 (0-5)	V-113 (0-5)	V-114 (5-10)	V-115 (5-10)	V-116 (0-5)
Sample Date	RCS-1		3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/28/2019	3/28/2019
Polychlorinated Biphenyls (PCBs)												
Aroclor 1016	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1221	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1232	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1242	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1248	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1254	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1260	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1262	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
Aroclor 1268	1	mg/kg	ND(0.081)	ND(0.084)	ND(0.082)	ND(0.083)	ND(0.079)	ND(0.079)	ND(0.080)	ND(0.081)	ND(0.082)	ND(0.082)
General Chemistry												
Ignitability	NSE	present/ absent	absent	absent	absent	absent	absent	absent	absent	absent	--	--
pH	5-9	pH Units	8.1	8.2	8.1	8.5	8.2	6.3	6.5	6.4	--	--
Reactivity Cyanide	NSE	mg/kg	ND(3.9)	ND(3.9)	ND(4.0)	ND(4.0)	ND(3.9)	ND(3.9)	ND(3.9)	ND(4.0)	--	--
Reactivity Sulfide	NSE	mg/kg	ND(19)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	--	--
Solids, Total	NSE	%	97.0	93.8	94.2	94.8	95.2	94.5	93.3	95.4	94.6	94.6
Specific Conductance	2000	umhos/cm	4.9	5.7	5.8	5.3	6.5	4.7	ND(2.0)	2.1	--	--

Notes:
- mg/kg=milligram per kilogram; uhoms/cm=microohms per centimeter
- MCP RCS-1 Reportable Concentrations taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0974(2) dated April 2014
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical report

Table 3
Summary of Groundwater Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46067

Location ID / Sample Date	RCGW-1	Units	MW-3 4/2/2019	V-101 (MW) 4/1/2019	V-102 (MW) 4/1/2019	V-103 (MW) 4/2/2019	V-104 (MW) 4/2/2019	V-105 (MW) 4/1/2019	V-106 (MW) 4/2/2019
Volatile Organic Compounds (VOCs)									
1,1,1,2-Tetrachloroethane	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,1-Trichloroethane (1,1,1-TCA)	200	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane (1,1-DCA)	70	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene (1,1-DCE)	7	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloropropene	NSE	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2,3-Trichlorobenzene	NSE	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2,3-Trichloropropane	1000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,2,4-Trichlorobenzene	70	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2,4-Trimethylbenzene	10000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-Chloropropane	100	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromoethane	0.02	ug/l	*ND(0.50)*	*ND(0.50)*	*ND(0.50)*	*ND(0.50)*	*ND(0.50)*	*ND(0.50)*	*ND(0.50)*
1,2-Dichlorobenzene	600	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane (1,2-DCA)	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethylene, trans (1,2-DCE, trans)	80	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	3	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3,5-Trimethylbenzene	100	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene (1,3-DCB)	100	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichloropropane	5000	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,3-Dichloropropene, cis	0.5	ug/l	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
1,3-Dichloropropene, trans	0.5	ug/l	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
1,4-Dichlorobenzene	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dioxane	0.3	ug/l	*ND(50)*	*ND(50)*	*ND(50)*	*ND(50)*	*ND(50)*	*ND(50)*	*ND(50)*
2,2-Dichloropropane	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Hexanone	1000	ug/l	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Acetone	6300	ug/l	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Benzene	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromobenzene	1000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromochloromethane (Chlorobromomethane)	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	3	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	4	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Bromomethane	7	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Carbon Disulfide	1000	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon Tetrachloride	2	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Table 3
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Location ID / Sample Date	RCGW-1	Units	MW-3 4/2/2019	V-101 (MW) 4/1/2019	V-102 (MW) 4/1/2019	V-103 (MW) 4/2/2019	V-104 (MW) 4/2/2019	V-105 (MW) 4/1/2019	V-106 (MW) 4/2/2019
Chlorobenzene	100	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	1000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Chloroform	50	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Chloromethane	1000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Dibromochloromethane	2	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Dibromomethane	5000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane	10000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Dichloroethylene, cis 1,2 (cis-1,2 DCE)	20	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethyl Ether	1000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Ethylbenzene	700	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethyl-Tert-Butyl-Ether (Tert-Butylethyl Ether)	NSE	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Hexachlorobutadiene	0.6	ug/l	*ND(0.60)*	*ND(0.60)*	*ND(0.60)*	*ND(0.60)*	*ND(0.60)*	*ND(0.60)*	*ND(0.60)*
Isopropyl Benzene	10000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropyl Ether	1000	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Methyl Ethyl Ketone (MEK)	4000	ug/l	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl Isobutyl Ketone (MIBK)	350	ug/l	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl Tert-Butyl Ether	70	ug/l	ND(1.0)	8.2	1.1	ND(1.0)	ND(1.0)	1.6	14
Methylene Chloride	5	ug/l	*ND(5.0)*	*ND(5.0)*	*ND(5.0)*	*ND(5.0)*	*ND(5.0)*	*ND(5.0)*	*ND(5.0)*
Naphthalene	140	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
n-Butylbenzene	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
o-Chlorotoluene	1000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
o-Xylene	3000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
p/m-Xylene	3000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
p-Chlorotoluene (4-Chlorotoluene)	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
p-Cymene	1000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Propylbenzene	1000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Sec-Butylbenzene	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Styrene	100	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tert-Butylbenzene	1000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tertiary-Amyl Methyl Ether (TAME)	NSE	ug/l	ND(2.0)	4.5	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	6.4
Tetrachloroethane	2	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Tetrachloroethylene (PCE)	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrahydrofuran	5000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Toluene	1000	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethylene (TCE)	5	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane	10000	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Vinyl Chloride	2	ug/l	*ND(2.0)*	*ND(2.0)*	*ND(2.0)*	*ND(2.0)*	*ND(2.0)*	*ND(2.0)*	*ND(2.0)*

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Semivolatile Organic Compounds (SVOCs)									
1,2,4-Trichlorobenzene	70	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
1,2-Dichlorobenzene	600	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
1,2-Diphenylhydrazine	500	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
1,3-Dichlorobenzene (1,3-DCB)	100	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
1,4-Dichlorobenzene	5	ug/l	*ND(5.3)*	*ND(5.5)*	ND(4.9)	ND(4.9)	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
2,4,5-Trichlorophenol	200	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2,4,6-Trichlorophenol	10	ug/l	*ND(11)*	*ND(11)*	ND(9.8)	ND(9.8)	*ND(11)*	*ND(11)*	*ND(12)*
2,4-Dichlorophenol	10	ug/l	*ND(11)*	*ND(11)*	ND(9.8)	ND(9.8)	*ND(11)*	*ND(11)*	*ND(12)*
2,4-Dimethylphenol	60	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2,4-Dinitrophenol	200	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2,4-Dinitrotoluene	30	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2,6-Dinitrotoluene	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2-Chloronaphthalene	10000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2-Chlorophenol	10	ug/l	*ND(11)*	*ND(11)*	ND(9.8)	ND(9.8)	*ND(11)*	*ND(11)*	*ND(12)*
2-Methylnaphthalene	10	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
2-Methylphenol (o-Cresol)	5000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
2-Nitrophenol (o-Nitrophenol)	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
3,3-Dichlorobenzidine	80	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
3-Methylphenol/4-Methylphenol	NSE	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
4-Bromophenyl Phenyl Ether	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Acenaphthene	20	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Acenaphthylene	30	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Acetophenone	10000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Aniline	10000	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Anthracene	30	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Benzo(a)Anthracene	1	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Benzo(a)Pyrene	0.2	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Benzo(b)Fluoranthene	1	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Benzo(g,h,i)Perylene	20	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Benzo(k)Fluoranthene	1	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Bis (2-Chloroethyl) Ether	30	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Bis(2-Ethylhexyl)Phthalate	6	ug/l	*ND(11)*	*ND(11)*	*ND(9.8)*	*ND(9.8)*	*ND(11)*	*ND(11)*	*ND(12)*
Butyl Benzyl Phthalate	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Chrysene	2	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Dibenzo(a,h)Anthracene	0.5	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Dibenzofuran	1000	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)

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Dichloroisopropyl Ether	30	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Dichloromethoxy Ethane	5000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Diethyl Phthalate	2000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Dimethyl Phthalate	300	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Fluoranthene	90	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Fluorene	30	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Hexachlorobenzene	1	ug/l	*ND(11)*	*ND(11)*	*ND(9.8)*	*ND(9.8)*	*ND(11)*	*ND(11)*	*ND(12)*
Hexachlorobutadiene	0.6	ug/l	*ND(11)*	*ND(11)*	*ND(9.8)*	*ND(9.8)*	*ND(11)*	*ND(11)*	*ND(12)*
Hexachloroethane	8	ug/l	*ND(11)*	*ND(11)*	*ND(9.8)*	*ND(9.8)*	*ND(11)*	*ND(11)*	*ND(12)*
Indeno(1,2,3-cd)Pyrene	0.5	ug/l	*ND(5.3)*	*ND(5.5)*	*ND(4.9)*	*ND(4.9)*	*ND(5.5)*	*ND(5.7)*	*ND(6.1)*
Isophorone	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Naphthalene	140	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
n-Butyl Phthalate	500	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
n-Dioctyl Phthalate	10000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Nitrobenzene	5000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
p-Chloroaniline	20	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Pentachlorophenol	1	ug/l	*ND(11)*	*ND(11)*	*ND(9.8)*	*ND(9.8)*	*ND(11)*	*ND(11)*	*ND(12)*
Phenanthrene	40	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Phenol	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
p-Nitrophenol	1000	ug/l	ND(11)	ND(11)	ND(9.8)	ND(9.8)	ND(11)	ND(11)	ND(12)
Pyrene	20	ug/l	ND(5.3)	ND(5.5)	ND(4.9)	ND(4.9)	ND(5.5)	ND(5.7)	ND(6.1)
Metals, Total									
Antimony	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Arsenic	NSE	ug/l	ND(0.40)	ND(0.40)	22	ND(0.40)	0.50	ND(0.40)	1.6
Barium	NSE	ug/l	13	93	210	14	14	150	190
Beryllium	NSE	ug/l	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
Cadmium	NSE	ug/l	ND(0.50)	0.52	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	3.0
Chromium	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8
Copper	NSE	ug/l	ND(5.0)	5.1	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	6.9
Lead	NSE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	1.6
Manganese	NSE	ug/l	73	4400	7000	91	95	870	5400
Mercury	NSE	ug/l	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Nickel	NSE	ug/l	ND(5.0)	17	9.0	ND(5.0)	ND(5.0)	44	110
Selenium	NSE	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Silver	NSE	ug/l	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Thallium	NSE	ug/l	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
Vanadium	NSE	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Zinc	NSE	ug/l	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	33

Table 3
Summary of Groundwater Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46067

Location ID	RCGW-1	Units	MW-3	V-101 (MW)	V-102 (MW)	V-103 (MW)	V-104 (MW)	V-105 (MW)	V-106 (MW)
Sample Date			4/2/2019	4/1/2019	4/1/2019	4/2/2019	4/2/2019	4/1/2019	4/2/2019
Metals, Dissolved									
Arsenic	10	ug/l	0.74	0.98	26	0.74	0.79	1.1	1.0
Nickel	100	ug/l	-	-	-	-	-	-	110
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1221	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1232	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1242	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1248	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1254	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1260	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1262	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
Aroclor 1268	0.5	ug/l	ND(0.093)	ND(0.15)	ND(0.17)	ND(0.17)	ND(0.11)	ND(0.17)	ND(0.12)
General Chemistry									
Ammonia	1000	ug/l	ND(300)	1500	1500	ND(300)	ND(300)	1100	2000
Chloride	NSE	ug/l	120000	260000	95000	230000	26000	140000	210000
Nitrogen	NSE	ug/l	3500	5100	7000	1700	4100	11000	39000
Nitrogen, Nitrate	NSE	ug/l	1500	2700	4700	1700	2100	7800	35000
Nitrogen, Nitrate/Nitrite	NSE	ug/l	ND(100)	400	254	ND(100)	ND(100)	810	302
Nitrogen, Total Kjeldahl	NSE	ug/l	2000	2000	2000	ND(1000)	2000	2000	4000
Ortho-phosphate	NSE	ug/l	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Phosphorus	NSE	ug/l	ND(62)	ND(62)	ND(62)	140	ND(62)	ND(62)	93

Notes:
- ug/l=micrograms per liter
- Reportable Concentrations (RCGW-1) taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0974(2) dated April 2014
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration
- Italicized values represent laboratory detection limit equal to or above applicable RCGW-1 standard
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical report

Table 4
Summary of Soil Vapor Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46067

Location ID	V-SG-101	V-SG-102	V-SG-103	V-SG-104	V-SG-105	V-SG-106
Sample Date	4/9/2019	4/9/2019	4/9/2019	4/9/2019	4/9/2019	4/9/2019
CHEMICAL NAME						
Methane	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)

Notes:
- Results reported in parts per million/volume (ppmv)
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical report

Table 5
Summary of Firing Range Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	RCS-1	Units	V-201	V-202	V-203	V-204	V-205	V-206	FIRING RANGE
Sample Date			4/11/2019	4/11/2019	4/11/2019	4/11/2019	4/11/2019	4/11/2019	4/11/2019
Metals									
Antimony	20	mg/kg	41	140	ND(1.7)	3.3	5.1	140	290
Arsenic	20	mg/kg	--	--	--	--	--	--	9.2
Barium	1000	mg/kg	--	--	--	--	--	--	13
Beryllium	90	mg/kg	--	--	--	--	--	--	ND(0.17)
Cadmium	70	mg/kg	--	--	--	--	--	--	0.40
Chromium	100	mg/kg	--	--	--	--	--	--	4.3
Copper	1000	mg/kg	4200	4200	120	74	1000	7100	--
Lead	200	mg/kg	4000	13000	46	290	630	24000	24000
Mercury	20	mg/kg	--	--	--	--	--	--	ND(0.025)
Nickel	600	mg/kg	--	--	--	--	--	--	3.6
Selenium	400	mg/kg	--	--	--	--	--	--	ND(3.3)
Silver	100	mg/kg	--	--	--	--	--	--	1.2
Thallium	8	mg/kg	--	--	--	--	--	--	ND(1.7)
Tungsten	NSE	mg/kg	ND(0.4)	14	5	ND(0.4)	ND(0.4)	ND(0.3)	--
Vanadium	400	mg/kg	--	--	--	--	--	--	7.7
Zinc	1000	mg/kg	18	29	27	37	23	69	46
Metals, TCLP									
Lead	5*	mg/l	180	360	7.5	8.3	48	830	--
Total Petroleum Hydrocarbons (TPH)									
TPH	1000	mg/kg	--	--	--	--	--	--	27
Volatile Organic Compounds (VOCs)									
Total VOCs	NSE	mg/kg	--	--	--	--	--	--	ND(0.17)
Semivolatile Organic Compounds (SVOCs)									
Total SVOCs	NSE	mg/kg	--	--	--	--	--	--	ND(0.68)
Polychlorinated Biphenyls (PCBs)									
Total PCBs	1	mg/kg	--	--	--	--	--	--	ND(0.081)
General Chemistry									
Ignitability	NSE	present/absent	--	--	--	--	--	--	absent
pH	5-9	pH Units	--	--	--	--	--	--	6.6
Reactivity Cyanide	NSE	mg/kg	--	--	--	--	--	--	ND(3.9)
Reactivity Sulfide	NSE	mg/kg	--	--	--	--	--	--	20
Solids, Total	NSE	%	93.3	95.4	95.3	92.1	92.3	92.9	96.4
Specific Conductance	2000	umhos/cm	--	--	--	--	--	--	2.0

Notes:
- mg/kg=milligram per kilogram; mg/l=milligram per liter; uhoms/cm= microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0974(2) dated April 2014
- * = MCP RCS-1 does not apply. Regulatory concentration taken from the Resource Conservation and Recovery Act (RCRA) hazardous waste regulations 40 CFR Part 261 Subpart C.
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration (*regulatory concentration)
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical report

Table 5
Summary of Firing Range Analytical Data
Rivers Edge
484 - 490 Boston Post Road
Wayland, MA
VERTEX PROJECT NO. 46047

Sample ID	RCS-1	Units	V-301 (2-4)	V-302 (2-4)	V-303 (2-4)	V-304 (2-4)	V-305 (2-4)	V-306 (2-4)	V-307 (2-4)	V-308 (2-4)	V-309 (0-2)	V-310 (0-2)	V-311 (0-2)	V-312 (2-4)	V-313 (2-4)	V-314 (2-4)
Sample Date			5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019	5/8/2019
Metals																
Antimony	20	mg/kg	ND(1.7)	ND(1.8)	ND(1.8)	ND(1.7)	ND(1.7)	ND(1.8)	ND(1.8)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.9)	ND(1.8)	ND(1.8)
Arsenic	20	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	1000	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	90	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	70	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	100	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1000	mg/kg	13	22	45	13	37	31	28	43	4.2	400	5.9	20	24	32
Lead	200	mg/kg	5.0	31	28	12	22	25	57	22	5.9	140	8.8	150	86	55
Mercury	20	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	600	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	400	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	100	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	8	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tungsten	NSE	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	400	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	1000	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals, TCLP																
Lead	5*	mg/l	--	--	--	--	--	--	--	--	--	20	--	0.099	--	--
Total Petroleum Hydrocarbons (TPH)																
TPH	1000	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)																
Total VOCs	NSE	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semivolatile Organic Compounds (SVOCs)																
Total SVOCs	NSE	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)																
Total PCBs	1	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry																
Ignitability	NSE	present/absent	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	5-9	pH Units	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reactivity Cyanide	NSE	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Reactivity Sulfide	NSE	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Solids, Total	NSE	%	93.9	91.5	93.3	94.1	93.5	92.6	93.2	93.6	96.2	96.4	96.0	89.5	89.1	91.3
Specific Conductance	2000	umhos/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
- mg/kg=milligram per kilogram; mg/l=milligram per liter; uhoms/cm= microohms per centimeter
- Reportable Concentrations (RCS-1) taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0974(2) dated April 2014
- * = MCP RCS-1 does not apply. Regulatory concentration taken from the Resource Conservation and Recovery Act (RCRA) hazardous waste regulations 40 CFR Part 261 Subpart C.
- ND = Not Detected above laboratory reporting limits shown in parenthesis
- -- = Not Analyzed
- NSE = No Standard Exists
- Highlighted values exceeds the applicable Reportable Concentration (*regulatory concentration)
- Full analytical results, including QA/QC information and data flags, are detailed in the laboratory analytical report

APPENDIX A:

PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation
River's Edge
484 – 490 Boston Post Road
Wayland, Massachusetts
VERTEX Project Number 46047

Photograph #1: Southern exterior wall of site building, facing east.

Photograph #2: Main site building entrance.

Photograph #3: Northeastern exterior corner of the site building.

Photograph #4: Northern exterior wall of site building.

Photograph #5: Laboratory area within site building.

Photograph #6: Laboratory chemicals stored within laboratory area fume hood.

Photographic Documentation
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Wayland, Massachusetts
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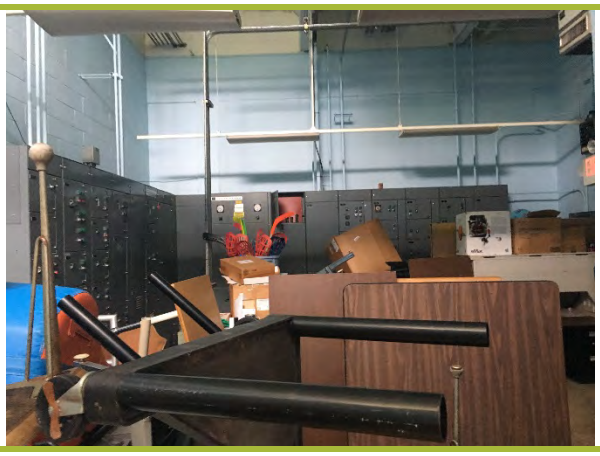
Photograph #7: Laboratory chemicals stored within laboratory area refrigerator.

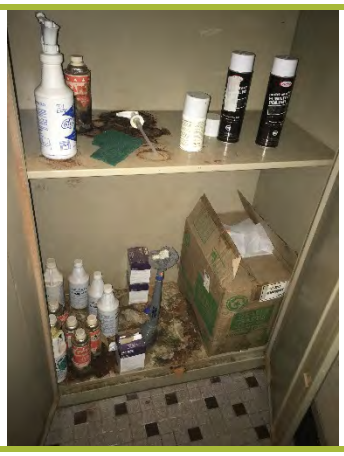
Photograph #8: Scales within scale room.

Photograph #9: Scale room.

Photograph #10: Floor drain within scale room.



Photograph #11: Control room filled with various school furniture.



Photograph #12: Cleaning materials within bathroom.

Photographic Documentation
River's Edge
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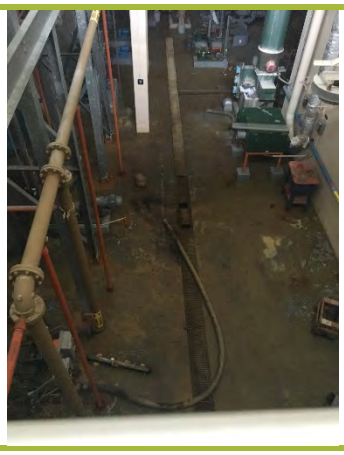
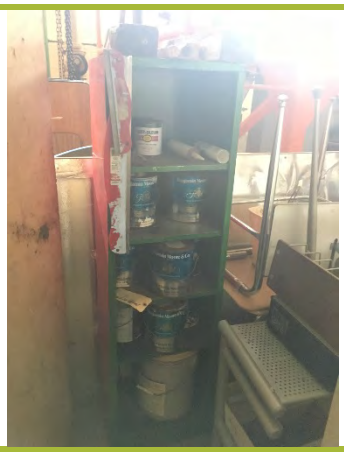
Wayland, Massachusetts
VERTEX Project Number 46047

Photograph #13: Area open to basement.



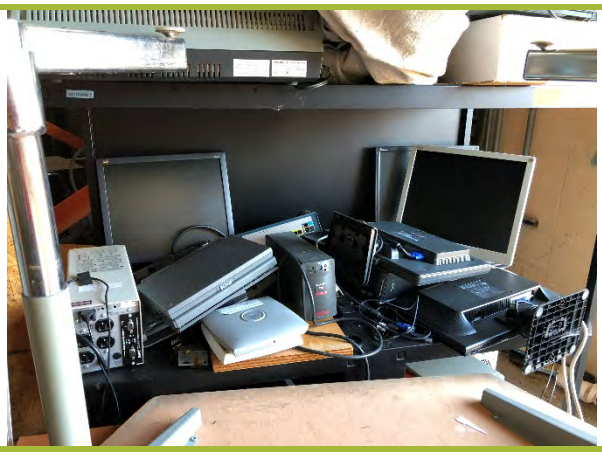
Photograph #14: Basement area.

Photograph #15: Chemicals stored within the machine shop area.



Photograph #16: Chemicals stored within the machine shop area.

Photograph #17: Additional treatment chemical storage.



Photograph #18: Example of additional school materials stored within the site building.

Photographic Documentation
River's Edge
484 – 490 Boston Post Road
Wayland, Massachusetts
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Photograph #19: Basement machine area and floor drains.

Photograph #20: Basement machine area, floor drains, and water damage.

Photograph #21: Hazardous materials storage trailer.

Photograph #22: Material storage northern side of the hazardous materials storage trailer.

Photograph #23: Oil storage within the southern portion of the trailer.

Photograph #24: Material storage within the northern portion of the trailer.

Photographic Documentation
River's Edge
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Wayland, Massachusetts
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Photograph #25: Material storage and flammable storage cabinet within the northern portion of the trailer.

Photograph #26: Exterior wastewater treatment structures.

Photograph #27: Western exterior wall of site building and exterior treatment structure.

Photograph #28: Wastewater treatment ponds.

Photograph #29: Office trailer, facing south.

Photograph #30: Top of 32,000 cubic yard stockpile, facing east.

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Wayland, Massachusetts
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Photograph #31: Top of 32,000 cubic yard stockpile, facing southeast.

Photograph #32: 4,500 cubic yard stockpile.

Photograph #33: Ammunition storage trailers in firing range, facing northwest.

Photograph #34: Firing range, facing west-northwest.

Photograph #35: Firing range berm.

Photograph #36: Ammunition casings within firing range area.

Photographic Documentation
River's Edge
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Wayland, Massachusetts
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Photograph #37: Eastern abutting access road toward the Wayland Transfer Station.

Photograph #38: Eastern abutting wetlands followed by the Sudbury River.

Photograph #39: Southern abutting Boston Post Road followed by forested land.

Photograph #40: Southern abutting Boston Post Road followed by forested land.

Photograph #41: Western-northwestern abutting Sudbury Landfill.

Photograph #42: Northern abutting forested wetlands.

APPENDIX B:

TEST PIT LOGS

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-F8** 46047 The Greener Group, LLC Kristen Sarson 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some fine to coarse gravel, trace cobbles and debris (wood, metal, brick, asphalt, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND and fine to coarse GRAVEL, some cobbles, trace debris (wood, metal, brick, asphalt, concrete).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-E8** 46047 The Greener Group, LLC Kristen Sarson 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND and fine to coarse GRAVEL, trace silt and debris (ceramic, asphalt, concrete, fabric, brick).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND and fine to coarse GRAVEL, trace silty clay and debris (ceramic, asphalt, large concrete blocks, fabric, brick).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-F6** 46047 The Greener Group, LLC Kristen Sarson 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and fine to coarse GRAVEL, trace silt and debris (large concrete blocks, brick, asphalt, metal).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND and fine to coarse GRAVEL, some asphalt, trace silt and other debris (wood, paper, metal, plastic, brick).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-G6
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and SILT, some coarse gravel and cobbles, trace debris (asphalt, brick, plastic, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to medium SAND, some silt and coarse sand, little fine to coarse gravel, trace cobbles and debris (rubber, concerete, asphalt, glass, metal).	1.8
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-G7
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and fine to coarse GRAVEL, some cobbles, trace debris (asphalt, wood, plastic, brick, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND and fine to coarse GRAVEL, some cobbles, trace silt and debris (concrete, wood, plastic, asphalt).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-F7** 46047 The Greener Group, LLC Kristen Sarson 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND, some fine to coarse gravel, trace debris (asphalt, metal). Pockets to grey silty clay.	<1.0
1			
2			
3			
4		4' Suspect transite pipe.	
5		5-10' Dark brown silty SAND, trace debris (asphalt, concrete, wood, plastic).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-E7
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Tan fine to coarse SAND, trace fine to coarse gravel and debris (asphalt, metal, plastic).	<1.0
1			
2			
3			
4			
5		5-10' Tan fine to coarse SAND and fine to coarse GRAVEL, some cobbles, trace debris (asphalt, plastic, metal, fabric).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	**DESIGNATION:** **TP-E6**
	Location:	Wayland, MA	**PROJECT NO.:** 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and fine to coarse GRAVEL, some asphalt and cobbles, trace debris (concrete, wood, metal).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, some fine to coarse gravel and cobbles, trace wood and debris (plastic, asphalt, concrete).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-F5**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/1/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, trace cobbles and debris (concrete, plastic, wood, metal).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, trace cobbles and debris (concrete, plastic, wood, metal, asphalt).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-F5
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown and grey fine to coarse GRAVEL and fine to coarse SAND, trace cobbles and debris (asphalt, concrete, glass).	<1.0
1			
2			
3			
4			
5		5-11' Brown and grey fine to coarse GRAVEL and fine to coarse SAND, trace cobbles and debris (asphalt, concrete, glass). Pocket of wood and logs, accompanied by slight organic odor.	<1.0
6			
7			
8			
9			
10			
11		11-15' Dark brown fine to coarse SAND, some wood, roots, and silty clay, slight organic odor.	
12			
13			
14			
15		Test pit terminated at 15 feet bgs. Refusal not encountered.	

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-F4
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/1/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Light brown fine to coarse SAND, some fine to coarse gravel, trace debris (brick, wood, concrete, asphalt, plastic).	<1.0
1			
2			
3			
4			
5		5-10' Light brown fine to coarse SAND, some fine to coarse gravel, trace debris (brick, wood, concrete, asphalt, plastic).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-E4**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/1/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and fine to coarse GRAVEL, trace silt, cobbles, and debris (metal, wood, concrete, asphalt).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND and fine to coarse GRAVEL, trace silt, cobbles, and debris (metal, wood, concrete, asphalt, brick, styrofoam).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-D7**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/11/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and fine to coarse GRAVEL, trace boulders and debris (asphalt, wood, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND and fine to coarse GRAVEL, trace boulders and debris (asphalt, wood, concrete, metal, rubber).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-D6
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND and fine to coarse GRAVEL, some cobbles, trace debris (concrete, asphalt, fabric, brick). Clumps of clay observed.	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND and fine to coarse GRAVEL, some cobbles, trace clay trace clay and debris (asphalt, brick, concrete, ceramic, metal).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-C6
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse GRAVEL and fine to coarse SAND, trace clay and debris (asphalt, plastic, metal, wood, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse GRAVEL and fine to coarse SAND, trace debris (asphalt, plastic, metal, wood, concrete).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-B6
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some silt, trace debris (ceramic, asphalt, brick, metal, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, some fine to coarse gravel, little debris (brick, asphalt, ceramic, concrete, metal, glass), trace silt.	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-B5** 46047 The Greener Group, LLC Kristen Sarson 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some fine to coarse gravel and cobbles, trace silt and debris (asphalt, concrete, glass).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, some fine to coarse gravel and cobbles, trace silt and debris (asphalt, concrete, glass).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-C5**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/11/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-6' Tan silty CLAY, some fine to coarse sand and fine to coarse gravel, trace cobbles and debris (brick, asphalt, concrete, glass).	<1.0
1			
2			
3			
4			
5			
6		6-10' Grey fine to coarse GRAVEL, some silty clay, saturated.	2.2
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-D5**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/11/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some fine to coarse gravel, trace silt, cobbles, and debris (asphalt, brick, fabric, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Tan fine to coarse SAND, some coarse gravel, trace cobbles and debris (asphalt, brick, concrete).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-D4
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse GRAVEL, some fine to coarse sand, trace cobbles, clay, and debris (brick, asphalt, concrete, plastic).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse GRAVEL grading to fine to coarse SAND, some asphalt/ coal patch, trace cobbles and debris (brick, concrete, plastic).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	**DESIGNATION:** **TP-C4**
	Location:	Wayland, MA	**PROJECT NO.:** 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND, some fine to coarse gravel, trace silt, cobbles, and debris (plastic, metal, brick, asphalt).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse GRAVEL, some fine to coarse sand, little wood, trace debris (aspahlt, metal, plastic, concrete).	1.3
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-B4** 46047 The Greener Group, LLC Kristen Sarson 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND, pockets of fine to coarse gravel, trace silt, clay, cobbles, and debris (brick, glass, asphalt, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND, pockets of fine to coarse gravel, trace silt, clay, cobbles, and debris (brick, glass, asphalt, concrete).	1.2
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-A5
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND,little fine to coarse gravel, trace cobbles and debris (metal, asphalt, plastic, concrete, glass, wood).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND,little fine to coarse gravel, trace cobbles and debris (metal, asphalt, plastic, concrete, glass, wood).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-A4
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND,little fine to coarse gravel, trace cobbles and debris (metal, asphalt, plastic, concrete, glass, wood).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND,little fine to coarse gravel, trace cobbles and debris (metal, asphalt, plastic, concrete, glass, wood).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-A3** 46047 The Greener Group, LLC Kristen Sarson 3/11/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, little fine to coarse gravel, trace cobbles, clay, and debris (metal, glass, asphalt, concrete).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, little fine to coarse gravel, trace cobbles and debris (metal, glass, asphalt, concrete).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-B3**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/11/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND,little fine to coarse gravel, trace cobbles and debris (metal, asphalt, plastic, concrete, glass, wood).	<1.0
1			
2			
3			
4			
5		5-7' Tan fine to coarse SAND and fine to coarse GRAVEL, trace cobbles and debris (asphalt, plastic, concrete).	9.2
6			
7		7-10' Grey and black mottled clayey PEAT, organic odor.	
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-C3
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse GRAVEL and fine to coarse SAND, trace cobbles and debris (metal, aspahlt, concrete, plastic).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse GRAVEL and fine to coarse SAND, trace cobbles, silt, and debris (metal, aspahlt, concrete, plastic).	1.2
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-D3** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown and black fine to coarse SAND, some fine to coarse gravel and debris (large concrete slabs, a tire, asphalt, metal, wood), trace cobbles.	3.4
1			
2			
3			
4			
5		5-10' Dark brown and black fine to coarse SAND, some fine to coarse gravel and debris (large concrete slabs, asphalt, metal, wood), trace cobbles and silt.	5.1
6			
7			
8			
9			
10		10-15' Dark brown and black fine to medium SAND, some coarse sand and fine to coarse gravel, little debris (bricks, wood, concrete, asphalt, ceramics, metal), trace silt and clay.	4.2
11			
12			
13			
14			
15		Test pit terminated at 15 feet bgs. Refusal not encountered.	

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-E3**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/12/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Tan fine to coarse SAND, some fine to coarse gravel, trace debris (large concrete blocks, wood, asphalt, plastic).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to medium SAND and fine GRAVEL, some coarse gravel, trace silt, clay, and debris (concrete, wood, asphalt, plastic).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: **TP-F3**
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some fine to coarse gravel, some silt, trace cobbles and debris (asphalt, concrete, metal, plastic, wood).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, some fine to coarse gravel, some silt, trace cobbles and debris (asphalt, concrete, metal, plastic, wood).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-E2
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some fine to coarse gravel, some silt, trace cobbles and debris (asphalt, concrete, metal, plastic, wood).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, some fine to coarse gravel, some silt, trace cobbles and debris (asphalt, concrete, metal, plastic, wood).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-D2
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown and black fine to coarse SAND and SILT, some fine to coarse gravel, trace cobbles and debris (metal, concrete, plastic, asphalt, wood).	1.2
1			
2			
3			
4			
5		5-10' Dark brown and black fine to coarse SAND and SILT, some fine to coarse gravel, trace cobbles and debris (metal, concrete, plastic, asphalt, wood).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-C2
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND and fine to coarse GRAVEL, trace cobbles, silt, and debris (concrete, metal, brick, glass, ceramic, asphalt).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND and fine to coarse GRAVEL, trace cobbles, silt, and debris (concrete, metal, brick, glass, ceramic, asphalt).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-D1
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown and black fine to coarse SAND, some silt and fine to coarse gravel, trace debris (concrete, asphalt, wood, metal) and cobbles.	1.1
1			
2			
3			
4			
5		5-10' Dark brown and black fine to coarse SAND, some silt and fine to coarse gravel, trace debris (concrete, asphalt, wood, metal) and cobbles.	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-C1
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown and black fine to coarse SAND and fine to coarse GRAVEL, some silt, trace cobbles and debris (plastic, metal, asphalt, concrete).	1.3
1			
2			
3			
4			
5		5-10' Dark brown and black fine to coarse SAND and fine to coarse GRAVEL, some silt, trace cobbles and debris (plastic, metal, asphalt, concrete).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-B1** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (asphalt, paper, glass, concrete).	3.1
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (asphalt, paper, glass, concrete).	2.1
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	
	Location:	Wayland, MA	
	DESIGNATION:	**TP-B2**	
	PROJECT NO.:	46047	
	EXCAVATOR:	The Greener Group, LLC	
	INSPECTOR:	Kristen Sarson	
	DATE:	3/12/2019	

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-7' Brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (metal, plastic, asphalt).	<1.0
1			
2			
3			
4			
5		5-7' Brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (metal, plastic, asphalt).	<1.0
6			
7		7-8' Grey fine to coarse GRAVEL.	
8		8-10' Brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (metal, plastic, asphalt).	
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project:	Wayland	DESIGNATION: TP-A1
	Location:	Wayland, MA	PROJECT NO.: 46047
			EXCAVATOR: The Greener Group, LLC
			INSPECTOR: Kristen Sarson
			DATE: 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (metal, plastic, asphalt).	<1.0
1			
2			
3			
4			
5		5-10' Brown fine to coarse SAND, some fine to coarse gravel, trace silt and debris (metal, plastic, asphalt).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-A2** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND and fine to coarse GRAVEL, trace debris (brick, concrete, asphalt, fabric).	<1.0
1			
2			
3			
4			
5		5-10' Dark brown fine to coarse GRAVEL, some fine to coarse sand, trace silt and debris (brick, metal, concrete, asphalt).	<1.0
6			
7			
8			
9			
10		Test pit terminated at 10 feet bgs. Refusal not encountered.	
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-V-101** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to coarse SAND, some silt, trace roots.	<1.0
1			
2			
3			
4			
5		Test pit terminated at 5 feet bgs. Refusal not encountered.	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-V-102** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown LOAM (silt and fine sand), trace roots.	<1.0
1			
2			
3			
4			
5		Test pit terminated at 5 feet bgs. Refusal not encountered.	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-V-103** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown LOAM (silt and fine sand), trace roots.	<1.0
1			
2			
3			
4			
5		Test pit terminated at 5 feet bgs. Refusal not encountered.	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-V-104** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown fine to medium SAND, some silt, trace debris (one brick).	<1.0
1			
2			
3			
4			
5		Test pit terminated at 5 feet bgs. Refusal not encountered.	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

TEST PIT LOG

VERTEX®	Project: Wayland Location: Wayland, MA	**DESIGNATION:** **PROJECT NO.:** **EXCAVATOR:** **INSPECTOR:** **DATE:**	**TP-V-105** 46047 The Greener Group, LLC Kristen Sarson 3/12/2019

DEPTH ELEVATION	NO.	SOIL DESCRIPTION	PID (PPM)
		0-5' Dark brown LOAM (fine sand and silt), landscaping fabric.	<1.0
1			
2			
3			
4			
5		Test pit terminated at 5 feet bgs. Refusal not encountered.	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Test Pit Sketch

NORTH

See Figure 1 for test pit locations.

NOTES:

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System.

APPENDIX C:

BORING LOGS AND MONITORING WELL CONSTRUCTION LOGS

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-101(MW)

VERTEX

BORING INFORMATION

Start Date:	03/26/2019
Completion Date:	03/26/2019
Personnel:	Kristen Sarson
Drilling Co.:	Geosearch
Method:	Geoprobe
Refusal (Y/N):	N

WELL CONSTRUCTION DETAILS

Well Depth (ft):	20.0
Boring Depth (ft):	20.0
Well Diameter (in):	2.00
Screen Length (ft):	'10-20
Slot Size (in):	0.010
Completion Type:	Roadbox
Casing Diameter (in):	2.0

LOCATION

Lat:	42.3640
Long:	-71.3811
TOC (ft):	
GS Elev (ft):	

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	50		Sand and Silt	Dark brown and black fine SAND and SILT, some medium to coarse sand and f-c gravel, trace debris (brick, concrete).	0 feet	Dry		0.1
			Coarse to Fine Sand	Tan f-c SAND.		Damp		
5	32			Tan f-c SAND, some f-c gravel, trace silt.		Damp		0.1
10	29			Tan f-c SAND, some f-c gravel.		Damp		0.1
				Tan f-c SAND, some f-c gravel.		Wet		
15	46			Tan f-c SAND, some f-c gravel, trace silt.		Wet		0.0
20								

05/50/2019

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-102(MW)

VERTEX

BORING INFORMATION

Start Date:	03/26/2019
Completion Date:	03/26/2019
Personnel:	Kristen Sarson
Drilling Co.:	Geosearch
Method:	Geoprobe
Refusal (Y/N):	N

WELL CONSTRUCTION DETAILS

Well Depth (ft):	20.0
Boring Depth (ft):	20.0
Well Diameter (in):	2.00
Screen Length (ft):	'10-20
Slot Size (in):	0.010
Completion Type:	Roadbox
Casing Diameter (in):	2.0

LOCATION

Lat:	42.3642
Long:	-71.3824
TOC (ft):	
GS Elev (ft):	

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	24		Medium to Fine Sand	Dark brown fine to medium SAND, some silt, trace organics (roots).	0 feet	Damp		0.1
5	28		Sand and Silt	Dark brown fine SAND and SILT, some organics (wood and roots).		Damp		0.1
			Coarse to Fine Sand	Tan fine to coarse SAND, layer of crushed stone at 8 feet bgs.		Dry		
10	30		Sand and Gravel	Tan f-c SAND and f-c GRAVEL, trace silt.		Dry		0.0
15	60			Tan f-c SAND and f-c GRAVEL, trace silt.		Wet		0.0
20								

05/50/2019

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-103(MW)

VERTEX

BORING INFORMATION

Start Date:	03/27/2019
Completion Date:	03/27/2019
Personnel:	Kristen Sarson
Drilling Co.:	Geosearch
Method:	Geoprobe
Refusal (Y/N):	N

WELL CONSTRUCTION DETAILS

Well Depth (ft):	35.0
Boring Depth (ft):	35.0
Well Diameter (in):	2.00
Screen Length (ft):	'25-35
Slot Size (in):	0.010
Completion Type:	Roadbox
Casing Diameter (in):	2.0

LOCATION

Lat:	42.3636
Long:	-71.3825
TOC (ft):	
GS Elev (ft):	

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	42		Fine Sands	TOPSOIL - Brown fine sand and silt, some organics (roots).	0 feet	Dry		44.3
			Sand and Silt	Light brown fine to medium SAND and SILT, trace coarse gravel.		Dry		
			Sand and Gravel	Brown f-c SAND and coarse GRAVEL, some crushed stone.		Dry		
5	43		Coarse to Fine Sand	Tan f-c SAND.		Damp		2.0
10	29			Tan f-c SAND, little coarse gravels and silt.		Damp		6.3
15	60							6.2
20	55					Damp		2.2

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SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-103(MW)

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	55		Coarse to Fine Sand	Tan f-c SAND, little coarse gravel.		Damp		2.2
25	60			Tan f-c SAND, little coarse gravel.		Damp		0.6
30	60		Medium to Fine Sand	Tan fine to medium SAND, little coarse sand.		Wet		0.1
35								
40								
45								

05/50/2019

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-104(MW)

VERTEX

BORING INFORMATION

Start Date:	03/26/2019
Completion Date:	03/26/2019
Personnel:	Kristen Sarson
Drilling Co.:	Geosearch
Method:	Geoprobe
Refusal (Y/N):	N

WELL CONSTRUCTION DETAILS

Well Depth (ft):	36.5
Boring Depth (ft):	36.5
Well Diameter (in):	2.00
Screen Length (ft):	'26.5-36.5
Slot Size (in):	0.010
Completion Type:	Roadbox
Casing Diameter (in):	2.0

LOCATION

Lat:	42.3635
Long:	-71.3828
TOC (ft):	
GS Elev (ft):	

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	42		Sand and Silt	Grey fine SAND and SILT, trace f-c gravel.	0 feet			46.1
			Medium to Fine Sand	Tan and orange fine to medium SAND, trace f-c gravel and debris (asphalt).				
			Gravel	Crushed STONE.				
			Sand and Silt	Grey fine SAND and SILT, trace debris (asphalt).				
5	20							5.2
				Tan and orange fine to medium SAND and SILT, trace f-c gravel and debris (asphalt).				
10	30		Coarse to Fine Sand	Tan and grey f-c SAND.		Damp		12.6
15	15			Tan f-c SAND, some f-c gravel.		Dry		7.8
			Gravel	Crushed STONE.		Dry		
20	15					Dry		0.5

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SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-104(MW)

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
25	15		Sand and Gravel	Tan and grey f-c SAND and f-c GRAVEL.		Dry		0.5
	60		Coarse to Fine Sand	Tan and grey f-c SAND, trace f-c gravel and silt.		Dry		0.5
30	60		Sand and Gravel	Tan and grey f-c SAND and f-c GRAVEL.		Dry		0.1
			Coarse to Fine Sand	Tan f-c SAND.		Wet		
35								
40								
45								

05/50/2019

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-105(MW)

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N

WELL CONSTRUCTION DETAILS

Well Depth (ft): 37.0
Boring Depth (ft): 37.0
Well Diameter (in): 2.00
Screen Length (ft): '27-37
Slot Size (in): 0.010
Completion Type: Roadbox
Casing Diameter (in): 2.0

LOCATION

Lat: 42.3637
Long: -71.3829
TOC (ft):
GS Elev (ft):

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	32		Fine Sands	TOPSOIL - Brown fine SAND and SILT, trace organics (roots).	0 feet	Damp		0.4
			Coarse to Fine Sand	Light brown f-c SAND, some silt, trace f-c gravel.		Damp		
5	28			Light brown fine to medium SAND grading to f-c SAND, trace f-c gravel and silt.		Dry		0.4
10	48			Tan f-c SAND.		Dry		0.3
15	60							0.3
20	60					Dry		0.1

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SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-105(MW)

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	60		Coarse to Fine Sand	Tan f-c SAND, trace f-c gravel.		Dry		0.1
25	60			Tan f-c SAND, trace f-c gravel.		Dry		0.1
			Sand and Silt	Tan fine SAND and SILT.				
			Gravel	Crushed STONE.		Dry		
			Medium to Fine Sand	Tan fine to medium SAND, some silt, trace coarse gravel.		Dry		
30	49			Tan fine to medium SAND, some silt and coarse sand.		Dry		0.0
			Coarse to Fine Sand	Tan f-c SAND, little f-c gravel, trace fine gravel.		Wet		
35								
40								
45								

05/50/2019

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-106(MW)

VERTEX

BORING INFORMATION

Start Date:	03/27/2019
Completion Date:	03/28/2019
Personnel:	Kristen Sarson
Drilling Co.:	Geosearch
Method:	Geoprobe
Refusal (Y/N):	N

WELL CONSTRUCTION DETAILS

Well Depth (ft):	37.0
Boring Depth (ft):	37.0
Well Diameter (in):	2.00
Screen Length (ft):	'27-37
Slot Size (in):	0.010
Completion Type:	Roadbox
Casing Diameter (in):	2.0

LOCATION

Lat:	42.3637
Long:	-71.3836
TOC (ft):	
GS Elev (ft):	

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
					0 feet			
	43		Asphalt	ASPHALT.		Dry		0.0
			Medium to Fine Sand	Tan fine to medium SAND, trace coarse sand.		Damp		
			Gravel	Crushed STONE.		Dry		
			Coarse to Medium Sand	Tan medium to coarse SAND, trace fine sand.		Damp		
5	33			Tan medium to coarse SAND, trace fine sand.		Damp		0.7
10	60		Coarse to Fine Sand	Tan f-c SAND.		Damp		1.3
15	49			Tan f-c SAND, some coarse gravel.		Damp		0.1
20	50					Dry		0.1

05/50/2019

SOIL BORING/MONITORING WELL CONSTRUCTION LOGS

Project: Rivers Edge Wayland City: Wayland State: MA

V-106(MW)

Depth (ft)	Penetration (in) Recovered (in/sleeve in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Well Construction	Moisture	Odor	PID (ppm)
	50		Coarse to Fine Sand	Tan f-c SAND, trace fine gravel.		Dry		0.1
25	52		Medium to Fine Sand	Orange fine to medium SAND.		Damp		
				Orange fine to medium SAND, little coarse sand.		Damp		0.0
30	60							0.0
				Orange fine to medium SAND, little coarse sand.		Wet		
35								
40								
45								

05/50/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-107

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38259100
Long: 42.36362300
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
0		25		Coarse to Fine Sand	Light brown f-c SAND, some f-c gravel, trace silt.	Damp		0.6
5		20		Sand and Gravel	Light brown f-c SAND and f-c GRAVEL.	Damp		2.6
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-108

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38275400
Long: 42.36333100
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
0		38		Medium to Fine Sand	Tan and orange fine to medium SAND, some coarse sand and coarse gravel.	Dry		2.3
5		41						1.5
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-109

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38290300
Long: 42.36342700
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
0		20		Asphalt	ASPHALT.	Damp		1.7
				Medium to Fine Sand	Tan and orange fine to medium SAND, some coarse sand, trace coarse gravel.			
5		50						2.1
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-110

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38295900
Long: 42.36345700
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
0		60		Asphalt	ASPHALT.	Dry		0.6
				Medium to Fine Sand	Tan and orange fine to medium SAND, some coarse sand, trace coarse gravel.			
5		20						1.2
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-111

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38289600
Long: 42.36350500
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
		43		Asphalt Medium to Fine Sand	ASPHALT. Light brown fine to medium SAND, some coarse sand and coarse gravel.	Dry		1.2
5		12						1.1
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-112

VERTEX

BORING INFORMATION

Start Date: 03/27/2019
Completion Date: 03/27/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38305600
Long: 42.36358200
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
0		30		Medium to Fine Sand	Brown fine to medium SAND, trace coarse sand, coarse gravel, and silt.	Damp		0.8
5		60						0.7
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-113

VERTEX

BORING INFORMATION

Start Date: 03/28/2019
Completion Date: 03/28/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38351400
Long: 42.36347400
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
		25		Sand and Silt	TOPSOIL- Brown fine SAND and SILT, some organics (roots).			0.0
				Medium to Fine Sand	Tan fine to medium SAND, some coarse sand, trace coarse gravel.	Damp		
5		30		Coarse to Fine Sand	Tan f-c SAND, some fine gravel.	Dry		0.1
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-114

VERTEX

BORING INFORMATION

Start Date: 03/28/2019
Completion Date: 03/28/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38347300
Long: 42.36323300
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
		28		Silt	TOPSOIL- Dark brown SILT and organics (roots).			0.5
				Coarse to Medium Sand	Light brown and orange medium to coarse SAND, little f-c gravel and fine sand.	Damp		
5		24						0.3
				Gravel	Grey coarse GRAVEL.	Dry		
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-115

VERTEX

BORING INFORMATION

Start Date: 03/28/2019
Completion Date: 03/28/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38305800
Long: 42.36312000
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
0		20		Medium to Fine Sand	Tan fine to medium SAND, trace silt and fine gravel.			0.3
5		12						0.1
10								
15								
20								

04/05/2019

SOIL BORING

Project: Rivers Edge Wayland City: Wayland State: MA

V-116

VERTEX

BORING INFORMATION

Start Date: 03/28/2019
Completion Date: 03/28/2019
Personnel: Kristen Sarson
Drilling Co.: Geosearch
Method: Geoprobe
Refusal (Y/N): N
Boring Depth (ft): 10.0

LOCATION

Lat: -71.38294100
Long: 42.36315900
GS Elev (ft): 0.0

NOTES

1. Soil are visually classified in general accordance with the Modified Burmister Soil Classification System

2. The soil was screened in the field using an photoionization detector (PID) with a 10.6 electron volt lamp calibrated to a 100 parts per million by volume (ppmv) isobutylene standard to report total organic volatiles (TOVs) as isobutylene equivalents with a response factor of 1. The PID has a detection limit of 0.1 ppmv, <1 readings are indicative of readings of 0.1 ppmv TVOCs or less.

Depth (ft)	Penetration (in)	Recovered (in)	Blow Count (6 in) (1,2,3,4)	Strata	Soil Description	Moisture	Odor	PID (ppm)
		40		Medium to Fine Sand	Tan fine to medium SAND, trace coarse sand and coarse gravel.	Dry		0.0
5				Gravel	Grey coarse GRAVEL and crushed stone.	Dry		
		21		Medium to Fine Sand	Tan fine to medium SAND, trace coarse sand and coarse gravel.	Dry		0.0
10								
15								
20								

04/05/2019

APPENDIX D:

RELEVANT DOCUMENTS

Langdon Environmental LLC
25 East Main Street
Southborough, Massachusetts 01772

April 1, 2019

Mr. Mark Fairbrother
Massachusetts Department of Environmental Protection
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

Subject: Summary of Groundwater Sampling Results
Samples Collected March 1, 2019
Sudbury Sand Hill Landfill, Sudbury, Massachusetts

Dear Mr. Fairbrother:

On behalf of the Town of Sudbury, Massachusetts, Langdon Environmental, LLC (Langdon) with support by Geologic Field Services, Inc. (GFS) collected groundwater samples at the Sudbury Sand Hill Landfill on March 1, 2019. The sampling was conducted in accordance with the Massachusetts Solid Waste Management Regulations (310 CMR 19.132, the Regulations). Post-closure groundwater monitoring at the Landfill occurs on a semi-annual basis.

This semi-annual groundwater monitoring report presents the results of the sampling event in tabular form as indicated below and includes a site plan showing each sampling location in Appendix A and the laboratory report from Alpha Analytical Laboratory, Inc. in Appendix C. Summary tables 1 through 3 which summarize field and laboratory sampling results are included in Appendix B. Tables 1 through 3 specifically contain the following:

- Groundwater Sampling Results
    - Table 1 summarizes the groundwater levels measured at each groundwater monitoring well.
    - Table 2 summarizes the analytical results for indicator parameters (alkalinity, total dissolved solids (TDS), nitrate-nitrogen, total cyanide, sulfate, chloride, and chemical oxygen demand (COD)); dissolved metals (arsenic, barium, cadmium, calcium, chromium, copper, iron, lead, manganese, mercury, selenium, silver, sodium, and zinc); and parameters measured in the field (pH, temperature, dissolved oxygen, oxidation reduction potential, and specific conductivity) for groundwater samples.
    - Table 3 summarizes the analytical results of volatile organic compounds (VOCs) for groundwater samples.

Analytical results that exceed applicable standards appear shaded in each table.

The results of this sampling event are discussed below.

Groundwater Sampling

Groundwater samples were collected from monitoring well locations GWMW-U-1, GWMW-D-1, GWMW-D-2, and GWMW-D-3. Samples were obtained using a TuBaH inertial lift valve. Wells were purged a minimum five well volumes prior to sampling. Samples for dissolved metals were field filtered using a 0.45-micron filter. Groundwater is assumed to flow generally to the east-southeast across the site based upon the location of the up-gradient monitoring well.

The Regulations require that groundwater sampling results be compared to the established federal EPA Drinking Water Standards and the State Primary Maximum Contaminant Level (MCL) and Secondary Maximum Contaminant Level (SMCL) standards for each parameter.

MCLs and/or EPA Primary Drinking Water Standards were exceeded in the following groundwater samples:

- Arsenic exceeded the MCL and EPA Primary Drinking Water Standard of 10 ug/L in the samples collected from GWMW-U-1, GWMW-D-2 and GWMW-D-3 with concentrations of 41 ug/L, 16 ug/L, and 44 ug/L, respectively.

SMCLs, state guidelines and/or EPA Secondary Drinking Water Standards were met or exceeded in the following groundwater samples:

- The pH level was below the SMCL range of 6.5 to 8.5 in the sample collected from GWMW-D-2.
- Chloride exceeded the SMCL and EPA Secondary Standard of 250 mg/L in the samples collected from each of the monitoring wells.
- Iron exceeded the SMCL and EPA Secondary Standard of 300 ug/L in samples collected from GWMW-U-1, GWMW-D-2 and GWMW-D-3.
- Manganese exceeded the Office of Research and Standards Guideline (ORSG) and the SMCL and EPA Secondary Standard of 50 ug/L in samples collected from GWMW-U-1, GWMW-D-2, and GWMW-D-3.
- Sodium exceeded the ORSG of 20,000 ug/L in all groundwater samples collected.

Secondary standards are established for the aesthetics and taste of a public drinking water supply and are not health based.

The concentration of 1,4-Dioxane exceeded the ORSG of 0.3 ug/L in samples collected from GWMW-U-1, GWMW-D-2, and GWMW-D-3.

The next semi-annual groundwater sampling round is scheduled for September 2019.

Quality Control Samples

Quality control samples are collected to verify that laboratory and sampling procedures are consistent and to indicate any possible cross contamination and resulting false positive analysis

results. The trip blank results were non-detect, indicating that the field sample storage and transport did not introduce contaminants.

Groundwater monitoring results from the March 2019 sampling round were consistent with prior sampling rounds.

Please do not hesitate to contact me at (617) 875-3693 if you have any questions or require anything further.

Sincerely yours

Bruce W. Haskell

Bruce W. Haskell, P.E.
Langdon Environmental LLC

cc: Melissa Murphy-Rodrigues, Sudbury Town Manager
Dan Nason, Sudbury Public Works
Sudbury Board of Health

Certification

In accordance with the Massachusetts Solid Waste Management Regulations (310 CMR 19.011), the Town of Sudbury, Massachusetts submits this certification for the attached March 2019 Semi-Annual Groundwater Monitoring Report prepared for us by Langdon Environmental, LLC.

I, Daniel Nason, attest under the pains and penalties of perjury that: (a) I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification statement; (b) based upon my inquiry of those persons responsible for obtaining the information, the information contained in this submittal is, to the best of my knowledge, true, accurate, and complete; (c) I am fully authorized to bind the entity required to submit these documents and to make this attestation on behalf of such entity; (d) I am aware that there are significant penalties, including, but not limited to, possible administrative and civil penalties for submitting false, inaccurate, or incomplete information and possible fines and imprisonment for knowingly submitting false, inaccurate, or incomplete information.

_____ Date: 4/1/2019

Daniel Nason, Director, Sudbury Department of Public Works

Appendix A – Site Plan

Langdon Environmental LLC

NOTES:

1. BOUNDARY BASED ON PLAN OF LAND IN SUDBURY MASSACHUSETTS PREPARED BY THE TOWN OF SUDBURY ENGINEERING DEPARTMENT DATED DECEMBER 4,1974.
2. TOPOGRAPHIC INFORMATION BASED ON U.S.G.S. NGVD29 DATUM.
3. TOPOGRAPHIC SURVEY PERFORMED BETWEEN APRIL 6,2011 AND JULY 5,2011.
4. PLAN INFORMATION FROM AMEC ENVIRONMENTAL & INFRASTRUCTURE CAP MATERIAL EVALUATION, SAMPLING LOCATION PLAN PREPARED AS PART OF SOLAR PV POST-CLOUSRE USE PERMITTING, DATED NOVEMBER 2012.

LEGEND

- EXISTING TOPOGRAPHY
- PROPERTY BOUNDARY
- METHANE GAS PROBE
- METHANE GAS WELL
- GROUNDWATER MONITORING WELL
- FIRE HYDRANT
- STOCKADE FENCE
- CHAINLINK FENCE
- UTILITY POLE
- TRAFFIC PATTERN
- CONCRETE PAD
- LEACHATE COLLECTION PIPING
- EDGE OF PAVEMENT
- EDGE OF GRAVEL

MAP 21 LOT 10A
TOWN OF WAYLAND
BK 11351, PG 146

MAP 22 LOT 4
TOWN OF WAYLAND
BK 11508, PG 468

WAYLAND

TOWN BOUNDARY

SUDBURY

M.G.P. 10
M.G.P. 12
M.G.P. 13
M.G.P. 14
M.G.P. 15
M.G.P. 16
M.G.P. 17
M.G.P. 19
G.W.M.W. U-1
G.W.M.W. D-1
G.W.M.W. D-2
G.W.M.W. D-3
M.G.M.W. 1
M.G.M.W. 2
M.G.M.W. 3
M.G.M.W. 4
M.G.M.W. #5
M.G.M.W. 6
M.G.M.W. 7
M.G.P. 1
M.G.P. 2
M.G.P. 3
M.G.P. 4
M.G.P. 5
M.G.P. 6
M.G.P. 7
M.G.P. 8
M.G.P. 9
M.G.P. 10
M.G.P. 11
M.G.P. 12
M.G.P. 13
M.G.P. 14

MAP K12 PARCEL 0001
ROBERT A. WALTERS & EUGIENIA B. WALTERS
WATERS-SUDBURY REALTY TRUST
BK 24358, PG 297

MAP K12 PARCEL 0002
TOWN OF SUDBURY LANDFILL
BK 11789, PG569

MAP K12 PARCEL 0004
HDR HOLDINGS LLC
BK 36402, PG 182

MAP 22 LOT 3
TOWN OF WAYLAND
BK 11845, PG480

CENTERLINE DRAINAGE DITCH
WIRE FENCE REMAINS
CHAIN LINK FENCE
EASEMENT FOR WATER MAIN (25' WIDE)
STOCKADE FENCE
CHAIN LINK FENCE
EDGE OF GRAVEL (TYP.)
EDGE OF PAVEMENT (TYP.)
EDGE OF GRAVEL (TYP.)
VENT PIPES (TYP.)
12" F.E.S.
12" F.E.S.

BENCHMARK PK NAIL
EL=130.21

BENCHMARK PK NAIL
EL=169.38

NYNEX MANHOLE

BENCHMARK PK NAIL
EL=154.34

UP 18/5
UP 18/4A
UP 18/4
UP 18/3
UP 18/2
UP 18/1A

BOSTON POST ROAD
(1903 STATE LAYOUT 49.5'WIDE)

PERSONNEL SHELTER
CONC. BLOCK WALL
LEAF/COMPOSTING DROPOFF
COMPACTOR
STORAGE CONTAINERS
SHED
CONTAINER
CONC. BLOCK WALL
BULK WASTE
COMPACTOR
CONC. BLOCK WALL
PUT-N-TAKE
DONATION BINS
SHED
CARDBOARD COMPACTOR
PERSONNEL SHELTER
METAL
WASTE OIL
WALL
GLASS
USED BATTERIES SHED
BLOCK
PAPER MIXED
USED TIRES
CONC.
NEWS PAPER
USED FLORESCENT SHED
PLASTIC #1
PLASTIC #2-7
CELL TOWER
EQUIPMENT BLDG
SHED
GATE
WAYLAND-SUDBURY SEPTAGE DISPOSAL FACILITY
EDGE OF GRAVEL (TYP.)

1" = 50'

REVISION	DATE	ISSUE / REVISION DESCRIPTION	ISSUED BY	APPROVED

SAND HILL SANITARY LANDFILL
SUDBURY, MASSACHUSETTS

SAMPLING LOCATION PLAN

CLIENT:
TOWN OF SUDBURY

SEAL:

DESIGNED BY: KH	DRAWN BY: KH
CHECKED BY: RB	DATE: NOVEMBER 2012
SCALE: 1"=50'	REVISION: 0
PROJECT NUMBER: 3652120008	
DRAWING NUMBER: C-101	
SHEET NUMBER: 1 OF 1	

U:\DEPT-EGNR\Town of Sudbury\3652120008 - Landfill Assessment\4.0 Project Deliverables\4.3 Drawings\AMEC Sampling Site Plan 2012-11-16.dwg - C-101 - Nov. 26, 2012 10:04am - dana.dempsey

Appendix B – Sampling Results Summary Tables

Langdon Environmental LLC

Table 1

Groundwater Monitoring Summary - March 1, 2019

Water Levels

Monitoring Well Number	Sample Date	Well Depth (feet)	Depth to Groundwater[1] (feet)
GWMW-U-1	3/1/2019	49.5	9.05
GWMW-D-1	3/1/2019	50.56	10.65
GWMW-D-2	3/1/2019	55	7.36
GWMW-D-3	3/1/2019	58.8	6.41

Note:

[1] Depth to water measured from top of PVC

Table 2
Summary of Water Quality Laboratory Results - Field Parameters, Conventional Parameters and Metals
Samples Collected March 1, 2019
Sudbury Landfill

			LOCATION	GWMW-U-1		GWMW-D-1		GWMW-D-2		GWMW-D-3	
			SAMPLING DATE	3/1/2019		3/1/2019		3/1/2019		3/1/2019	
			LAB SAMPLE ID	L1908061-01		L1908061-02		L1908061-03		L1908061-04	
PARAMETER	DRINKING WATER STANDARDS	UNITS		Results	Qual	Results	Qual	Results	Qual	Results	Qual
FIELD PARAMETERS											
TEMPERATURE	NL	°C		11.29		11.85		9.67		10.45	
SPECIFIC CONDUCTANCE	NL	µmhos/cm		1677		1238		1267		1334	
DISSOLVED OXYGEN	NL	mg/L		1.48		2.25		7.09		2.82	
pH	6.5-8.5 (3,5)	Std. units		6.52		6.56		6.36		6.68	
ORP (OXIDATION REDUCTION POTENTIAL)	NL	mV		-53.9		-51		-31.7		-65.2	
CONVENTIONAL PARAMETERS											
Alkalinity, Total	NL	mg $CaCO_3$/L		113		64.7		239		150	
Solids, Total Dissolved	500 (3,5)	mg/L		120		95		81		64	
Cyanide, Total	0.2 (4)	mg/L		0.005	U	0.005	U	0.005	U	0.005	U
Chloride	250 (3,5)	mg/L		450		310		260		310	
Nitrogen, Nitrate	10 (2,4)	mg/L		0.1	U	5.01		0.1	U	0.1	U
Sulfate	250 (3,5)	mg/L		28		37		10	U	25	
Chemical Oxygen Demand	NL	mg/L		86		39		160		57	
METALS											
Arsenic, Dissolved	10 (2,4)	ug/L		41		5	U	16		44	
Barium, Dissolved	2,000 (2,4)	ug/L		311		53		86		92	
Cadmium, Dissolved	5 (2,4)	ug/L		5	U	5	U	5	U	5	U
Calcium, Dissolved	NL	ug/L		83,900		43,500		102,000		87,200	
Chromium, Dissolved	100 (2,4)	ug/L		10	U	10	U	10	U	10	U
Copper, Dissolved	1,300 (2,4)	ug/L		10	U	10	U	10	U	10	U
Iron, Dissolved	300 (3,5)	ug/L		65,300		50	U	17,300		18,900	
Lead, Dissolved	15 (2,4)	ug/L		10	U	10	U	10	U	10	U
Manganese, Dissolved	50 (3,5)	ug/L		13,500		10	U	6,040		6,610	
Mercury, Dissolved	2 (2,4)	ug/L		0.2	U	0.2	U	0.2	U	0.2	U
Selenium, Dissolved	50 (2,4)	ug/L		10	U	10	U	10	U	10	U
Silver, Dissolved	100 (3,5)	ug/L		7	U	7	U	7	U	7	U
Sodium, Dissolved	20,000 (3,5)	ug/L		128,000		151,000		97,100		95,900	
Zinc, Dissolved	5,000 (3,5)	ug/L		50	U	50	U	50	U	50	U

NOTES:

(1) EXCEEDS PRIMARY MASSACHUSETTS OR EPA DRINKING WATER STANDARDS SHOWN SHADED IN TAN. EXCEEDANCES OF SECONDARY STANDARDS (BASED ON ODOR, TASTE AND COLOR OF A WATER SUPPLY) OR MASSDEP GUIDELINE SHOWN SHADED GRAY.

(2) MASSACHUSETTS DRINKING WATER STANDARD

(3) MASSACHUSETTS DRINKING WATER GUIDELINE OR SECONDARY MAXIMUM CONTAMINANT LEVEL

(4) EPA PRIMARY DRINKING WATER STANDARD

(5) EPA SECONDARY DRINKING WATER STANDARD

(6) Initial and final readings taken for field parameters. Final readings are shown.

NL No Limit

U Not Detected To The Limit Indicated

Table 3
Summary of Water Quality Laboratory Results - Volatile Organic Compounds
Samples Collected March 1, 2019
Sudbury Landfill

					LOCATION	GWMW-U-1		GWMW-D-1		GWMW-D-2		GWMW-D-3		TRIP BLANK	
					SAMPLING DATE	3/1/2019		3/1/2019		3/1/2019		3/1/2019		3/1/2019	
					LAB SAMPLE ID	L1908061-01		L1908061-02		L1908061-03		L1908061-04		L1908061-05	
	Analyte	MA-DW-MMCL	MA-DW-ORSG	MA-DW-SMCL	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organic Compounds by GC/MS															
	Methylene Chloride	0.005			mg/L	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U
	1,1-Dichloroethane		0.07		mg/L	0.00075	U	0.00075	U	0.00075	U	0.00075	U	0.00075	U
	Chloroform		0.07		mg/L	0.00075	U	0.00081		0.00075	U	0.00075	U	0.00075	U
	Carbon Tetrachloride	0.005			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,2-Dichloropropane	0.005			mg/L	0.0018	U	0.0018	U	0.0018	U	0.0018	U	0.0018	U
	Dibromochloromethane				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,1,2-Trichloroethane	0.005			mg/L	0.00075	U	0.00075	U	0.00075	U	0.00075	U	0.00075	U
	Tetrachloroethene	0.005			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Chlorobenzene	0.1			mg/L	0.00075		0.0005	U	0.0025		0.0005	U	0.0005	U
	Trichlorofluoromethane				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,2-Dichloroethane	0.005			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,1,1-Trichloroethane	0.2			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Bromodichloromethane				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	trans-1,3-Dichloropropene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	cis-1,3-Dichloropropene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,3-Dichloropropene, Total		0.0004		mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,1-Dichloropropene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	Bromoform				mg/L	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
	1,1,2,2-Tetrachloroethane				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Benzene	0.005			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Toluene	1			mg/L	0.00075	U	0.00075	U	0.00075	U	0.00075	U	0.00075	U
	Ethylbenzene	0.7			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Chloromethane				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	Bromomethane		0.01		mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	Vinyl Chloride	0.002			mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	Chloroethane				mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	1,1-Dichloroethene	0.007			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	trans-1,2-Dichloroethene	0.1			mg/L	0.00075	U	0.00075	U	0.00075	U	0.00075	U	0.00075	U
	1,2-Dichloroethene, Total				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Trichloroethene	0.005			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,2-Dichlorobenzene	0.6			mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,3-Dichlorobenzene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,4-Dichlorobenzene	0.005			mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	Methyl tert butyl ether		0.07	0.04	mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	m,p-Xylene				mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	o-Xylene				mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	Xylenes, Total	10			mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	cis-1,2-Dichloroethene	0.07			mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Dibromomethane				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	1,4-Dichlorobutane				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	1,2,3-Trichloropropane				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Styrene	0.1			mg/L	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
	Dichlorodifluoromethane		1.4		mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Acetone		6.3		mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Carbon Disulfide				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	2-Butanone		4		mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Vinyl Acetate				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	4-Methyl-2-Pentanone		0.35		mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	2-Hexanone				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Ethyl Methacrylate				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Acrylonitrile				mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	Bromochloromethane				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	Tetrahydrofuran		1.3		mg/L	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
	2,2-Dichloropropane				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,2-Dibromoethane	0.00002			mg/L	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
	1,3-Dichloropropane				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,1,1,2-Tetrachloroethane				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Bromobenzene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	n-Butylbenzene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	sec-Butylbenzene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	tert-Butylbenzene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	o-Chlorotoluene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	p-Chlorotoluene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,2-Dibromo-3-chloropropane	0.0002			mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	Hexachlorobutadiene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Isopropylbenzene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	p-Isopropyltoluene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	Naphthalene		0.14		mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	n-Propylbenzene				mg/L	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
	1,2,3-Trichlorobenzene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,2,4-Trichlorobenzene	0.07			mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,3,5-Trimethylbenzene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	1,2,4-Trimethylbenzene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	trans-1,4-Dichloro-2-butene				mg/L	0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.0025	U
	Ethyl Ether				mg/L	0.0025	U	0.0025	U	0.0053		0.0025	U	0.0025	U
1,4-Dioxane by 8270D-SIM															
	1,4-Dioxane		0.0003		mg/L	0.0018		0.000153	U	0.00318		0.00178		-	-

Notes and Abbreviations
MA-DW-MMCL: Massachusetts Maximum Contaminant Levels (MMCLs) Criteria per MassDEP DW Standards & Guidelines, July 2012.
MA-DW-ORSG: Massachusetts Drinking Water Guidelines (ORSGs) Criteria per MassDEP DW Standards & Guidelines, July 2012.
MA-DW-SMCL: Massachusetts Secondary Maximum Contaminant Levels (SMCLs) Criteria per MassDEP DW Standards & Guidelines, July 2012.
Values shown shaded in gray indicate reporting limits equal to or greater than corresponding Criteria or Guideline.
Values shown shaded in tan indicate detections equal to or greater than corresponding Criteria or Guideline.

SAND HILL SANITARY LANDFILL

Report Date: 4/1/19

SOUTHERLY PROPERTY LINE

Sampling Location		Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGMW-7	shallow	4/1/19	9:45am	RW	Sunny	40	29.81	0	0.1	0		20.2
MGMW-7	medium							0	0.1	0		20.3
MGMW-7	deep							0	0.1	0		20.4
MGP-9								0	0.4	0		20.9
MGP-8								0	0.1	0		21.0
MGP-7								0	0.3	0		19.8
MGP-6								0.1	1.1	2		19.9
MGP-5								0.2	1.8	4		20.1
MGP-4								1.3	1.7	26		20.3
MGP-3								0	0.2	0		20.1

Landtec Model GEM 2000 landfill meter, equipped with H_2S pod

SAND HILL LANDFILL QUARTERLY SAMPLING REPORT

SOUTHERLY PROPERTY LINE

Sampling Location		Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGMW-5	shallow	4/1/19	9:45am	RW	Sunny	40	29.81	0	0.1	0		20.7
MGMW-5	medium							0	0.3	0		20.3
MGMW-5	deep							0	0.2	0		20.5
Nynex manhole								0.1	0.3	2		20.0
MGP-2								0	0.1	0		21.1
MGP-1								0	0.2	0		21.2

WESTERLY PROPERTY LINE

Sampling Location		Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGMW-1	shallow							0	2.3	0		19.8
MGMW-1	deep							0	1.8	0		21.0
Westerly property-Catch basin in easterly parking lot								0	0.1	0		21.3
MGP-1								0	0.1	0		20.8
MGP-2								0	0.2	0		21.1

Landtec Model GEM 2000 landfill meter, equipped with H_2S pod

SAND HILL LANDFILL QUARTERLY SAMPLING REPORT

WESTERLY PROPERTY LINE

Sampling Location	Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGP-3	4/1/19	9:45am	RW	Sunny	40	29.81	0	0.2	0		20.7
MGP-4							0	0.1	0		20.1
Outlet Pipe-Head of Ditch							0	0.2	0		20.9
Outlet Pipe-Side of Ditch							0	0.1	0		21.1
MGP 5							W	A	T	E	R
MGMW-2							0	0.3	0		19.3
MGP-6							0	0.4	0		20.7
MGMW*D1						L	O	C	K	E	D
MGMW-3							0	0.1	0		20.3
MGP-7							0	0.2	0		21.1
MGP-8							0.2	1.3	4		18.3
MGMW-4							0	0.2	0		20.1
GWMW-U1						L	O	C	K	E	D
MGP-9							0	0.1	0		21.0

Landtec Model GEM 2000 landfill meter, equipped with H_2S pod

SAND HILL LANDFILL QUARTERLY SAMPLING REPORT

NORTHERLY PROPERTY LINE

Sampling Location	Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGP-10	4/1/19	9:45am	RW	Sunny	40	29.81	0	0.2	0		20.8
MGP-12							0	0.1	0		21.0
MGP-13							0	0.1	0		19.8
MGP-14							0	0.2	0		21.1
MGP-15							0.1	0.3	2		20.7

EASTERLY PROPERTY LINE

Sampling Location	Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
GWMW-D2						L	O	C	K	E	D
MGP-16							0	0.4	0		19.3
GWMW-D3						L	O	C	K	E	D
Leachate Tank Cover							W	A	T	E	R
Drain Manhole Cover							W	A	T	E	R
MGP-17							0	0.2	0		20.9

Landtec Model GEM 2000 landfill meter, equipped with H_2S pod

SAND HILL LANDFILL QUARTERLY SAMPLING REPORT

EASTERLY PROPERTY LINE

Sampling Location		Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGMW-6	shallow	4/1/19	9:45am	RW	Sunny	40	29.81	0	0.2	0		20.7
MGMW-6	medium							0	0.1	0		20.9
MGMW-6	deep							0	0.2	0		21.0

SOUTHERLY PROPERTY LINE

Sampling Location	Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MGP-19 top dump							N/A				
MGP-18							0	0.2	0		20.7
MGP-14							0	0.1	0		21.8
MGP-13							0	0.1	0		19.8
MGP-12							0	0.2	0		19.9
MGP-11							0	0.3	0		21.1
MGP-10							0	0.1	0		20.7
Richie&Clapper-Easterly GWMW							0	0.1	0		21.1
Richie&Clapper-Westerly GWMW							0	0.3	0		21.0

Landtec Model GEM 2000 landfill meter, equipped with H2S pod

SAND HILL LANDFILL QUARTERLY SAMPLING REPORT

ADDITIONAL MONITORING WELLS

Sampling Location	Date	Time (hh:mm)	Sampler's Initials	Weather	Ambient Temp.	Bar. Pressure	CH_4	CO_2	%LEL	H_2S	O_2
MSW-GV-1 Top North	4/1/19	9:45am	RW	Sunny	40	29.81	38.7	29.7	---		0.3
MSW-GV-2 Top Middle							25.6	23.7	---		0.1
MSW-GV-3 Top South							41.3	30.45	---		0.1
S-GV-1							0	2.2	0		19.2
S-GV-2							0	0.8	0		21.7
S-GV-3							0	0.3	0		20.3
S-GV-4							0	3.1	0		18.6
S-GV-5							0	0.6	0		21.1
S-GV-6							N/A				
S-GV-7							N/A				
S-GV-8							N/A				

Landtec Model GEM 2000 landfill meter, equipped with H2S pod

APPENDIX E:

CITY DIRECTORIES

Rivers Edge
484 Boston Post Road
Wayland, MA 01778

Inquiry Number: 5006034.5
July 27, 2017

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services
1995	☑	☐	Cole Information Services
1992	☑	☐	Cole Information Services
1988	☑	☐	Cole Criss-Cross Directory
1984	☑	☐	Cole Criss-Cross Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

484 Boston Post Road
Wayland, MA 01778

Year	*CD Image*	*Source*
BOSTON POST RD		
2013	pg A1	Cole Information Services
2008	pg A2	Cole Information Services
2003	pg A3	Cole Information Services
1999	pg A4	Cole Information Services
1995	pg A6	Cole Information Services
1992	pg A7	Cole Information Services
1988	pg A8	Cole Criss-Cross Directory
1988	pg A9	Cole Criss-Cross Directory
1984	pg A10	Cole Criss-Cross Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 2013

325	CVS PHARMACY
	FRANKLIN CATERERS
	VOLLWOOD COMPUTER SERVICE
326	SOVEREIGN BANK
334	ADAMS LOCKSMITH
	WAYLAND MINI MARKET
336	WAYLAND PIZZA HOUSE
338	COOKS AUTOMOTIVE OF WAYLAND
356	WAYLAND FOREIGN MOTORS LLC
364	OSMOND RALPH S CO
395	JOHN RUSSELL
397	RUSSELLS GARDEN CENTER
430	AQUARION OPERATING SERVICES
490	FIRST STUDENT
522	LUMINA AT LONGFELLOW
	ZIP ZONE AT LONGFELLOW
524	LONGFELLOW CLUB THE
	LONGFELLOW HEALTH CENTER
526	AI3 ARCHITECTS
	NATIONAL DENTEX CORP
	SOFTSCAPE
530	CANDELA CORP
533	BENTLEY OF BOSTON
	HERITAGE MOTOR WORKS
	LAMBORGHINI OF BOSTON
	ROLLS ROYCE MOTOR CARS OF NEW ENGLAN

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 2008

325	ADVANCED EXCAVATION CORP
326	SOVEREIGN BANK
334	ABODE
	WAYLAND MINI MARKET
336	WAYLAND PIZZA HOUSE
338	COOKS AUTOMOTIVE
	DAVE STARMER DISPOSAL INC
372	LISA RUTHIG
395	JOHN RUSSELL
397	RUSSELLS GARDEN CENTER
508	EH PUBLISHING
522	ADTECH
	LOAN FELLOW CHILDREN CENTER
	LOGAN PRODUCTS CO
524	LONGIELLOW HEALTH CENTER
	SUDBURY RACQUET CLUB INC
	TENNIS PRO SHOP INC
526	ALTERNATIVE SOLUTIONS
	EDUCATION NETWORK INC THE
	SHOW ME THE FOOD CO
	SOFTSCAPE INC
530	CANDELA LASER CORP
533	BENTLEY BOSTON
	FOREIGN MOTORS WEST INC
	HERB CHAMBERS OF WAYLAND INC
	HERITAGE MOTOR WERKS

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 2003

326	OCCUPANT UNKNOWN
	SOVEREIGN BANK
327	HUNNEMAN COLDWELL BANKER
338	DANIEL STARMER
	DAVID STARMER INC
356	OCCUPANT UNKNOWN
364	OCCUPANT UNKNOWN
	RALPH S OSMOND CO
372	OCCUPANT UNKNOWN
395	JOHN RUSSELL
397	OCCUPANT UNKNOWN
	RUSSELLS GARDEN CTR
400	BUS WAYLAND
426	JANICE CARLSON
430	MOLDFLOW CORP
	WOODARD & CURRAN INC
432	SOUND VISION INC
522	ADTECH
524	HOLISTIC HEALTH MANAGEMENT INC
	KENNETH HAZIRJIAN
	LAURENCE HAMMEL
	LONGFELLOW CLUB
	LONGFELLOW HEALTH CTR ACCTS
	SUDBURY RACQUET CLUB INC
526	526 BPR EAST
	ALTERNATIVE SOLUTIONS
	COMPUTER REVIVALS INC
	DAVID ELLIOTT
	DAVID WATKINS
	ELECTRONIC HOUSE
	EXCIMER LASER SYSTEMS INC
	ISO 9000 NETWORK
	SOFTSCAPE INC
	UV TECH SYSTEMS INC
530	CANDELA SKIN CARE CENTERS INC
	OCCUPANT UNKNOWN
533	OCCUPANT UNKNOWN
534	RICHARD WILSON

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 1999

325	CARAWAYS INCORPORATED
	IRRIGATION SERVICES INCORPORATED
	VILLAGE BARBER SHOP
	VOLLWOOD COMPUTER SERVICE
	WAYLAND TAX AGENCY
334	PICTURE STORE THE
	WAYLAND SPORTSWEAR OUTLET
336	WAYLAND PIZZA HOUSE
338	STARMER DAVE SERVICE STATION
	STARMERS DAVE DISPOSAL INCORPORATED
356	AUTOMOTIVE PROFIT BUILDERS
	COOKS AUTOMOTIVE OF WAYLAND INCORPORATED
364	OSMOND RALPH S COMPANY
372	ALLISON KEHNE
	JOHN RUSSELL
397	RUSSELL SALES COMPANY MANUFACTURERS AGT
	RUSSELL'S GARDEN CENTER
490	METHUEN CONSTRUCTION COMPANY INCORPORATED
522	ADTECH SYSTEMS
	ELECTRO FREETO MANUFACTURING COMPANY INCORPORATED
	GIORGIO ROBERT SUDBURY SCHOOL OF TAEKWON DO
	LONGFELLOW CHILDRENS CENTER
524	LONGFELLOW CLUB
	LONGFELLOW CLUB THE
	LONGFELLOW HEALTH CENTER INCORPORATED
526	ADTECH SYSTEMS
	ALAN CHAPMAN COMM
	ALTERNATIVE SOLUTIONS
	AMERICAN WRITERS REVIEW
	AUTOMOTIVE PROFIT BUILDERS
	AUTOMOTIVE PROFIT BUILDERS COMPANY INCORPORATED
	BLUE DOLPHIN COMMUNICATIONS
	CARE COMPUTER SYSTEMS INCORPORATED
	CHAPMAN ALAN COMMUNICATIONS
	EDITOR & WRITER
	EDUCATION NETWORK INCORPORATED
	EH PUBLISHING INCORPORATED
	EXCIMER LASER SYSTEMS
	HAMBLIN GROUP THE
	IMPRESS DESIGN TYPOGRAPHY
	INTERNET VOYAGER
	ISO 9000 NETWORK
	J E ROBISON SALES
	LASERTONE CORPORATION
	NATIONAL DENTEX CORPORATION
	PORTABLE CLEAN ROOMS INCORPORATED
	RAZCAL CORPORATION
	SUBSCRIPTION MARKETING
	TECHNICAL SUPPORT SERVICES INCORPORATED
	TMP SERVICES COMPANY

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 1999 (Cont'd)

526 UV TECHNOLOGY SYSTEMS
WRITING FOR MONEY
530 CANDELA LAZER CORPORATION
533 HATCH & SONS AUTOMOTIVE INCORPORATED
534 SEAVEY INCORPORATED

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 1995

325	CARAWAY'S INC
	CASE TRAVEL SERVICE INC
	IRRIGATION SERVICES INC
	VILLAGE BARBER SHOP
	VOLLWOOD COMPUTER SERVICE
326	SHAWMUT BANK-AREA BANKING OFFICES-WAYLAND
336	WAYLAND PIZZA HOUSE
338	STARMER DAVE SERV STA
	STARMER'S DAVE DISPOSAL INC
356	BILL & LEO AUTO SERVICE
	WAYLAND CITGO SERVICE
364	OSMOND RALPH S CO
395	HIGGINS, EMILY
	PLISSEY, PAUL
397	RUSSELL'S GARDEN CENTER
430	RAYTHEON COMPANY-EQUIPMENT DIVISION HQTRS
	RAYTHEON COMPANY-EQUIPMENT DIVISION HQTRS-EQUIPMENT DEVELOPMENT
522	ELECTRO FREETO MFG CO INC
	LOGAN PRODUCTS
	WATERS MANUFACTURING INC
524	LONGFELLOW CLUB THE
	LONGFELLOW HEALTH CENTER
	SUDBURY CHIROPRACTIC OFFICE
526	ADTECH SYSTEMS
	ALTERNATIVE SOLUTIONS
	CANDELA LAZER CORP
	CHAPMAN ALAN COMMUNICATIONS
	EXCIMER LASER SYSTEMS
	HAMBLIN GROUP THE
	IMPRESS DESIGN TYPOGRAPHY
	ISO 9000 NETWORK
	J E ROBISON SALES
	PORTABLE CLEAN ROOMS INC
	TMP SERVICES CO
534	SEAVEY INC

Target Street	Cross Street	Source
✓	-	Cole Information Services

BOSTON POST RD 1992

325	CARAWAY'S INC
	CASE TRAVEL SERVICE INC
	LASERTONE CORP
	VILLAGE BARBER SHOP
	VOLLWOOD COMPUTER SERVICE
326	WEST NEWTON SVGS BANK
336	WAYLAND PIZZA HOUSE
338	STARMER DAVE SERV STA
	STARMER'S DAVE DISPOSAL INC
346	SWARTHOUT, K
356	BILL & LEO AUTO SERVICE
	WAYLAND CITGO SERVICE
364	OSMOND RALPH S CO
372	IACOVIELLO, M
397	RUSSELL'S GARDEN CENTER
	SKEHAN, ELIZ & TIM
430	RAYTHEON COMPANY-EQUIPMENT DIVISION HQTRS
	RAYTHEON COMPANY-EQUIPMENT DIVISION HQTRS-EQUIPMENT DEVELOPMENT
522	RICHEY & CLAPPER INC
	WATERS MANUFACTURING INC
524	LONGFELLOW HEALTH CENTER
	SUDBURY CHIROPRACTIC OFFICE
526	CANDELA LAZER CORP
	CHAPMAN ALAN COMMUNICATIONS
	CYMER
	IMPRESS DESIGN/TYPOGRAPHY INC
	KOLMAR TECHNOLOGIES
	TMP SERVICES CO

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

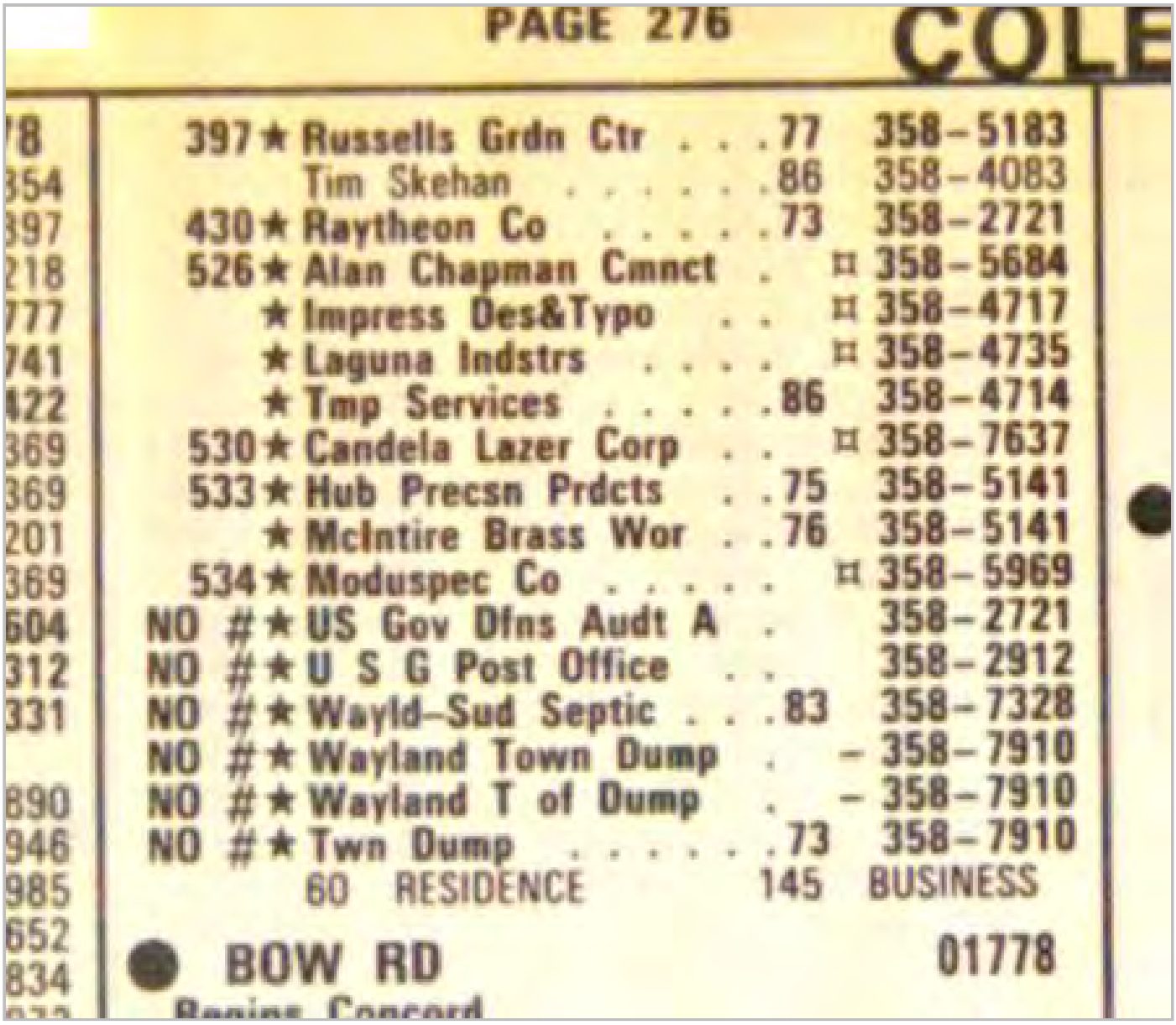
BOSTON POST RD 1988

	★	Ok International	86	6[illegible]-1498
303	A ★	Wayland Antique		- 358-7452
304	★	Aneptek Corp	85	358-6131
	★	Ledgewood Assoc	86	358-5148
	★	Smith&Donahue Inc	83	358-5317
305	★	Newtonvl Camra&Vid	79	358-2115
	★	Photo-Video Store	¤	358-2115
	★	Western Union	85	358-2115
309	★	Dragon Win Restrnt	86	358-4406
	★	Rockwell S Restaur	80	358-4406
310	★	Atmtv Svc Mngmt	86	358-4700
		Scott M Brindley	83	358-5814
	★	T B Chisholm Ins	86	358-6111
	★	Metro West Mdcl Sr	¤	358-6119
	★	Olga European Skin	80	358-7313
311	★	Foster&Foster	77	358-5131
	★	Dr F N Natale	79	443-5181
	★	Dr J Spada-Horne	85	358-7100
	★	Dr J Spada-Horne	85	358-7758
	★	Dr H J Stacks		358-7100
	★	Dr H J Stacks	¤	358-7758
313	★	Thayers Phrmcy Way		358-2381
317		J R Heartland	81	358-7731
320			NP	
325	★	Case Trvl Svc Inc	85	358-5711
	★	Criste Electronics	86	358-5201
		Erwin David	80	358-5260
	★	W S Farrell Co	75	358-4569
	★	Lincoln-Fairfield	82	358-4569
	★	R H Assocts Inc	79	358-4701
	★	Viking Intrntnl	¤	358-7340
	★	Village Barber Sho		- 358-7575
	★	Vollwood Computer		- 358-5126
326	★	West Nwtn Svg Bank	86	358-5116
334	★	Carpet Carousel	76	358-7301
336	★	Wayland Pizza Hse		358-7316
338	★	D Starmer Srv Sta		358-7793
	★	D Starmers Dispsl		358-4040
346		K Swarthout	82	358-7263
356	★	Bill&Leo Auto Svs	¤	358-7760
	★	Wayland Citgo	86	358-7760
364	★	R S Osmond Co	84	358-5321
372		Denis Thibault	85	358-6352
397	★	Russells Grdn Ctr		358-2283

¤ — New Listing To The Directory — — New Listing T

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

BOSTON POST RD 1988

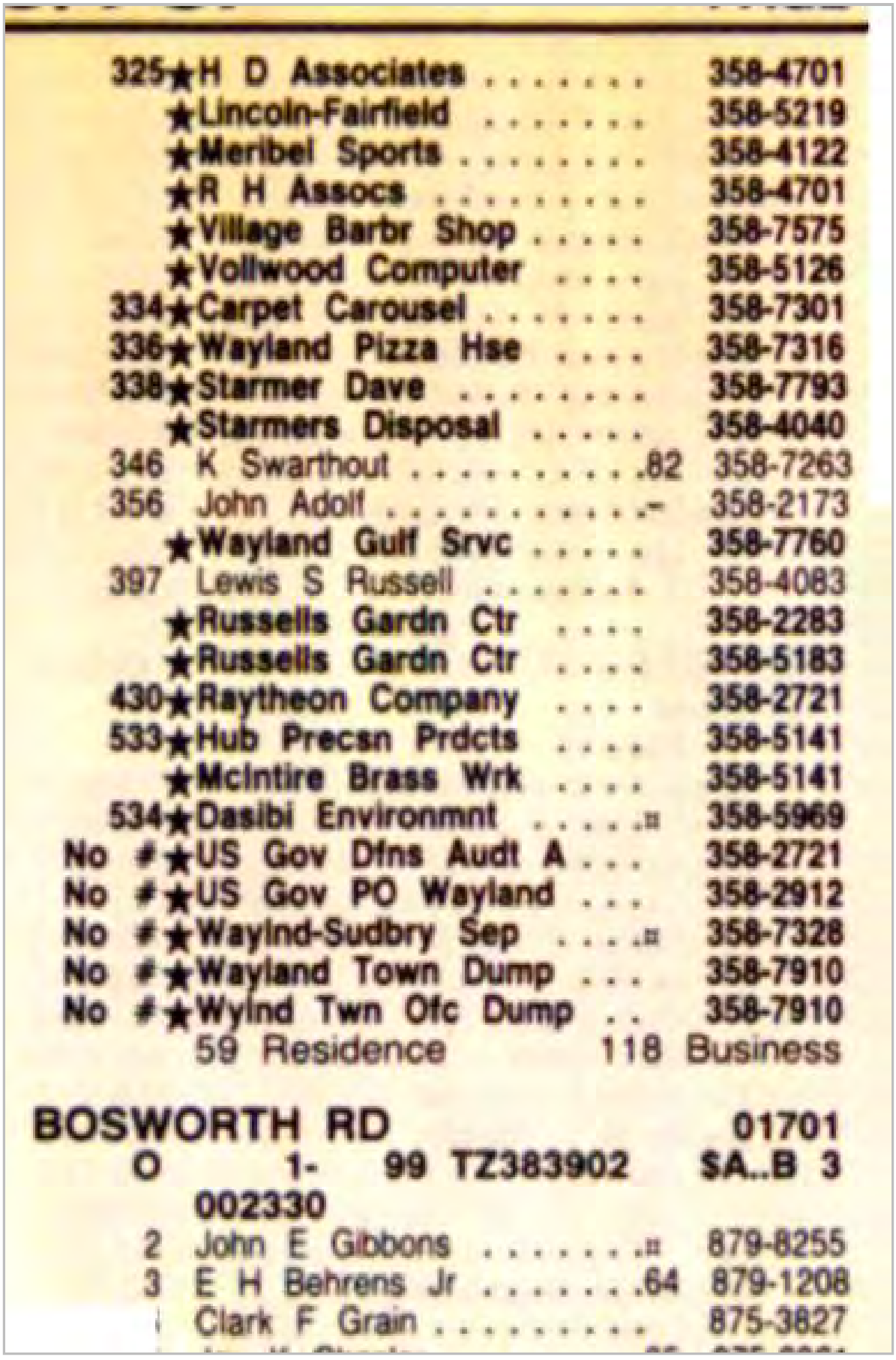


PAGE 276 COLE

78	397	★ Russells Grdn Ctr	77		358-5183
354		Tim Skehan	86		358-4083
397	430	★ Raytheon Co	73		358-2721
218	526	★ Alan Chapman Cmnct		¤	358-5684
777		★ Impress Des&Typo		¤	358-4717
741		★ Laguna Indstrs		¤	358-4735
422		★ Tmp Services	86		358-4714
369	530	★ Candela Lazer Corp		¤	358-7637
369	533	★ Hub Precsn Prdcts	75		358-5141
201		★ McIntire Brass Wor	76		358-5141
369	534	★ Moduspec Co		¤	358-5969
604	NO #	★ US Gov Dfns Audt A			358-2721
312	NO #	★ U S G Post Office			358-2912
331	NO #	★ Wayld-Sud Septic	83		358-7328
	NO #	★ Wayland Town Dump		-	358-7910
890	NO #	★ Wayland T of Dump		-	358-7910
946	NO #	★ Twn Dump	73		358-7910
985		60 RESIDENCE	145		BUSINESS
652					
834		BOW RD			01778
		Begins Concord			

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

BOSTON POST RD 1984



325 ★H D Associates 358-4701
★Lincoln-Fairfield 358-5219
★Meribel Sports 358-4122
★R H Assocs 358-4701
★Village Barbr Shop 358-7575
★Vollwood Computer 358-5126
334 ★Carpet Carousel 358-7301
336 ★Wayland Pizza Hse 358-7316
338 ★Starmer Dave 358-7793
★Starmers Disposal 358-4040
346 K Swarthout 82 358-7263
356 John Adolf . . . . . .- 358-2173
★Wayland Gulf Srvc 358-7760
397 Lewis S Russell 358-4083
★Russells Gardn Ctr 358-2283
★Russells Gardn Ctr 358-5183
430 ★Raytheon Company 358-2721
533 ★Hub Precsn Prdcts 358-5141
★McIntire Brass Wrk 358-5141
534 ★Dasibi Environmnt . . . . .H 358-5969
No # ★US Gov Dfns Audt A . . . 358-2721
No # ★US Gov PO Wayland . . . 358-2912
No # ★Wayind-Sudbry Sep . . . .H 358-7328
No # ★Wayland Town Dump . . . 358-7910
No # ★Wylnd Twn Ofc Dump . . 358-7910
59 Residence 118 Business

BOSWORTH RD 01701
O 1- 99 TZ383902 $A..B 3
002330
2 John E Gibbons . . . . . .H 879-8255
3 E H Behrens Jr 64 879-1208
Clark F Grain 875-3827

APPENDIX F:

AERIAL PHOTOGRAPHS

Rivers Edge

484 Boston Post Road

Wayland, MA 01778

Inquiry Number: 5006034.9

July 28, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/28/17

Site Name:

Rivers Edge
484 Boston Post Road
Wayland, MA 01778
EDR Inquiry # 5006034.9

Client Name:

Vertex Engineering Services
400 Libbey Parkway
Weymouth, MA 02189-0000
Contact: Kristen Sarson

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: March 29, 1995	USGS/DOQQ
1985	1"=500'	Flight Date: April 17, 1985	USGS
1980	1"=500'	Flight Date: October 10, 1980	USDA
1978	1"=500'	Flight Date: May 12, 1978	USGS
1970	1"=500'	Flight Date: October 06, 1970	USDA
1969	1"=500'	Flight Date: April 09, 1969	USGS
1963	1"=500'	Flight Date: April 27, 1963	USGS
1957	1"=500'	Flight Date: April 22, 1957	USGS
1952	1"=500'	Flight Date: June 16, 1952	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.


INQUIRY #: 5006034.9
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5006034.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 5006034.9
YEAR: 2008
= 500'
N
EDR


INQUIRY #: 5006034.9
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 5006034.9

YEAR: 1995

= 500'

N

EDR


INQUIRY #: 5006034.9
YEAR: 1985
= 500'
N
EDR


INQUIRY #: 5006034.9
YEAR: 1980
= 500'
N
EDR

INQUIRY #: 5006034.9

YEAR: 1978

= 500'

N

EDR


INQUIRY #: 5006034.9
YEAR: 1970
= 500'
N
EDR


INQUIRY #: 5006034.9
YEAR: 1969
= 500'
N
EDR


INQUIRY #: 5006034.9
YEAR: 1963
= 500'
N
EDR

INQUIRY #: 5006034.9

YEAR: 1957

= 500'

N

EDR


INQUIRY #: 5006034.9
YEAR: 1952
= 500'
N
EDR

APPENDIX G:

TOPOGRAPHIC MAPS

Rivers Edge

484 Boston Post Road

Wayland, MA 01778

Inquiry Number: 5006034.4

July 27, 2017

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/27/17

Site Name:

Rivers Edge
484 Boston Post Road
Wayland, MA 01778
EDR Inquiry # 5006034.4

Client Name:

Vertex Engineering Services
400 Libbey Parkway
Weymouth, MA 02189-0000
Contact: Kristen Sarson

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Vertex Engineering Services were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 46047
Project: River s Edge - Wayland

Coordinates:

Latitude:	42.363386 42° 21' 48" North
Longitude:	-71.380921 -71° 22' 51" West
UTM Zone:	Zone 19 North
UTM X Meters:	303938.34
UTM Y Meters:	4692869.63
Elevation:	121.01' above sea level

Maps Provided:

2012	1918
1987	1915
1979	1894
1970	
1965, 1970	
1958	
1950	
1943	

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Framingham
2012
7.5-minute, 24000

Concord
2012
7.5-minute, 24000

Maynard
2012
7.5-minute, 24000

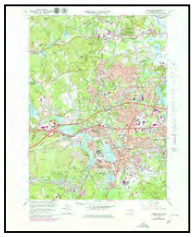
Natick
2012
7.5-minute, 24000

1987 Source Sheets

Maynard
1987
7.5-minute, 25000
Aerial Photo Revised 1981

Framingham
1987
7.5-minute, 25000
Aerial Photo Revised 1981

1979 Source Sheets



Framingham
1979
7.5-minute, 25000
Aerial Photo Revised 1977

Maynard
1979
7.5-minute, 25000
Aerial Photo Revised 1977

CONCORD
1979
7.5-minute, 25000
Photo Revised 1979

1970 Source Sheets

Natick
1970
7.5-minute, 25000
Aerial Photo Revised 1969

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1965, 1970 Source Sheets

Maynard
1965
7.5-minute, 24000

Framingham
1965
7.5-minute, 24000
Aerial Photo Revised 1939

Concord
1970
7.5-minute, 24000
Aerial Photo Revised 1969

1958 Source Sheets

Concord
1958
7.5-minute, 24000

Natick
1958
7.5-minute, 24000

1950 Source Sheets

Maynard
1950
7.5-minute, 24000

Natick
1950
7.5-minute, 24000

Concord
1950
7.5-minute, 24000

Framingham
1950
7.5-minute, 24000
Aerial Photo Revised 1938

1943 Source Sheets

Framingham
1943
7.5-minute, 31680

Natick
1943
7.5-minute, 31680

Concord
1943
7.5-minute, 31680

Maynard
1943
7.5-minute, 31680

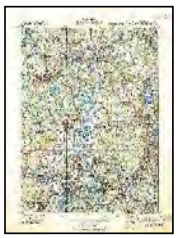
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1918 Source Sheets

Framingham
1918
15-minute, 62500

1915 Source Sheets



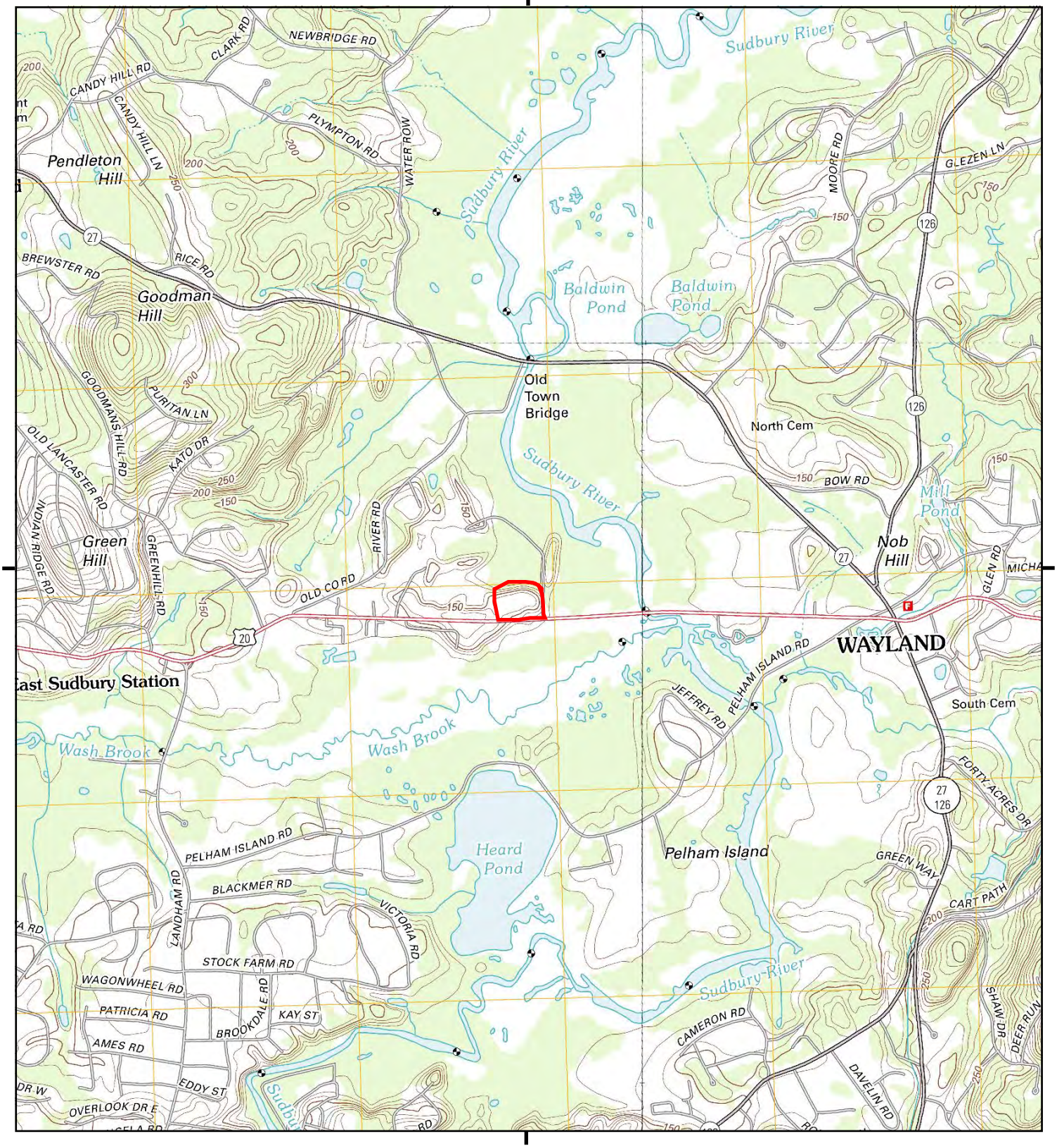
FRAMINGHAM
1915
15-minute, 62500

1894 Source Sheets

Framingham
1894
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

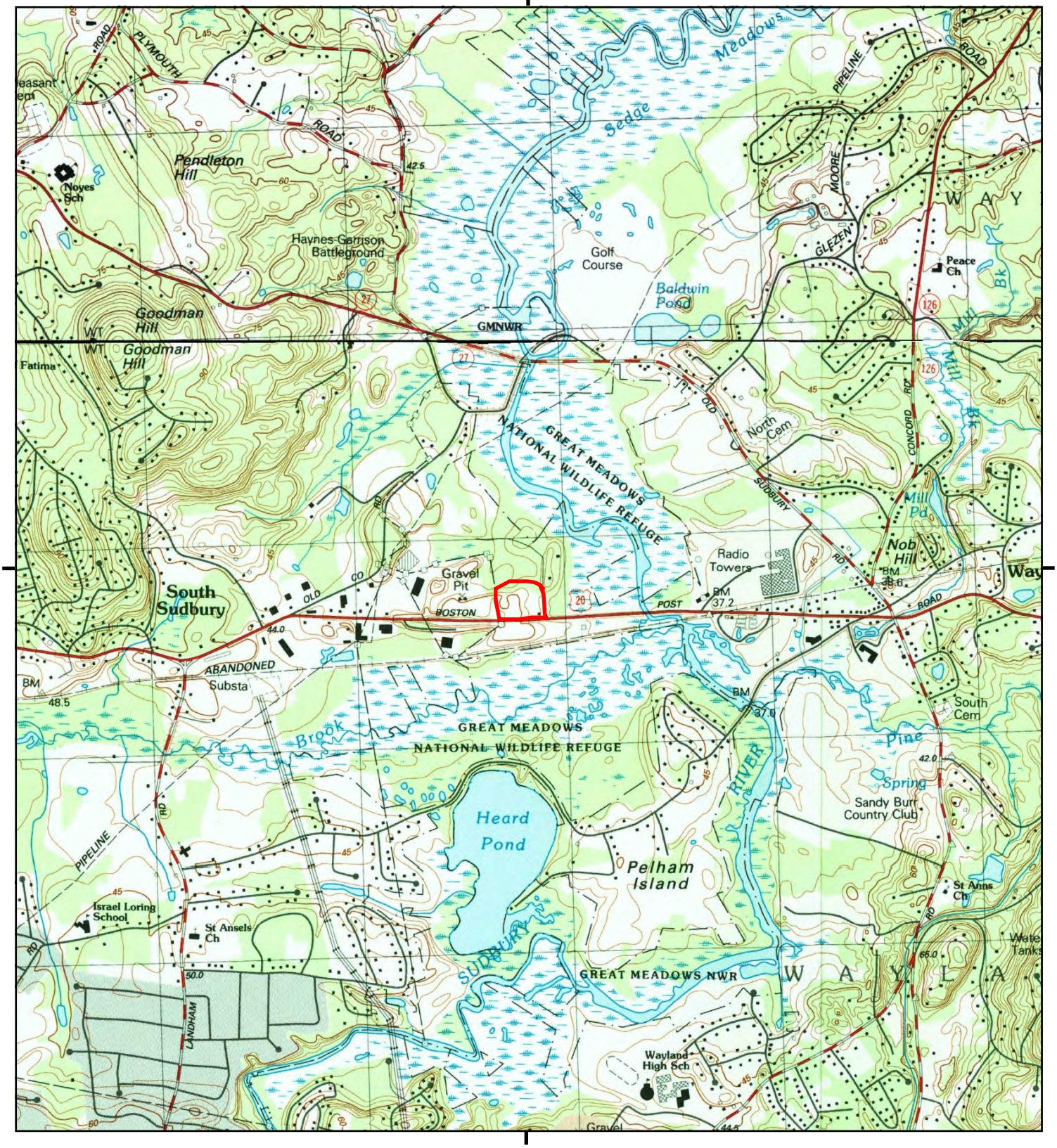
TP, Framingham, 2012, 7.5-minute
NE, Concord, 2012, 7.5-minute
SE, Natick, 2012, 7.5-minute
NW, Maynard, 2012, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N

Historical Topo Map

1987



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1987, 7.5-minute
N, Maynard, 1987, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N

Historical Topo Map

1979

This report includes information from the following map sheet(s).

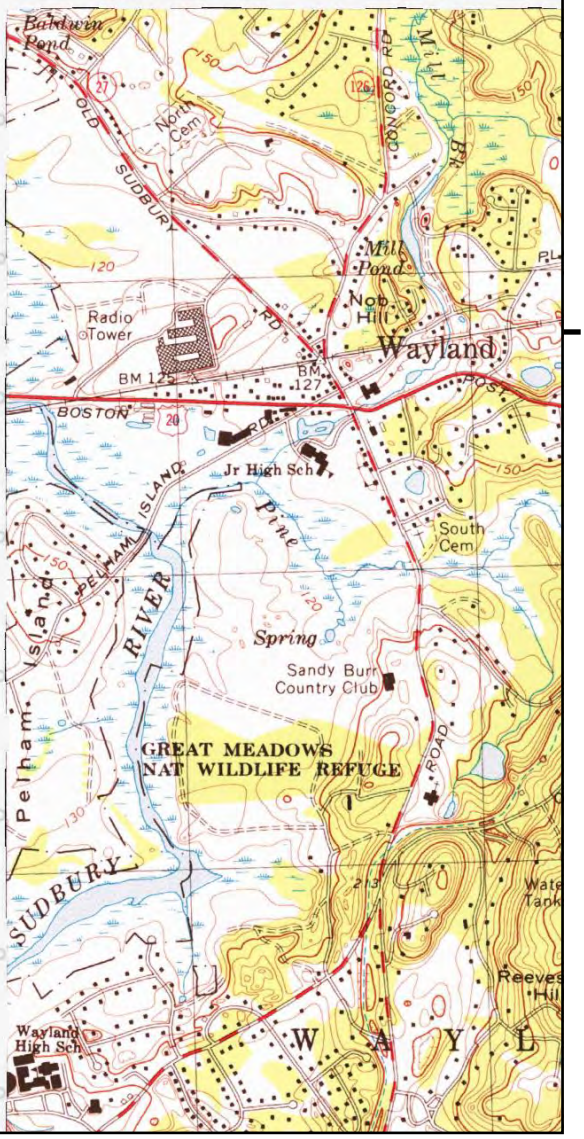
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1979, 7.5-minute
NE, CONCORD, 1979, 7.5-minute
NW, Maynard, 1979, 7.5-minute

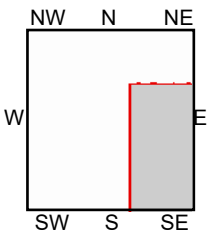
SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N



This report includes information from the following map sheet(s).

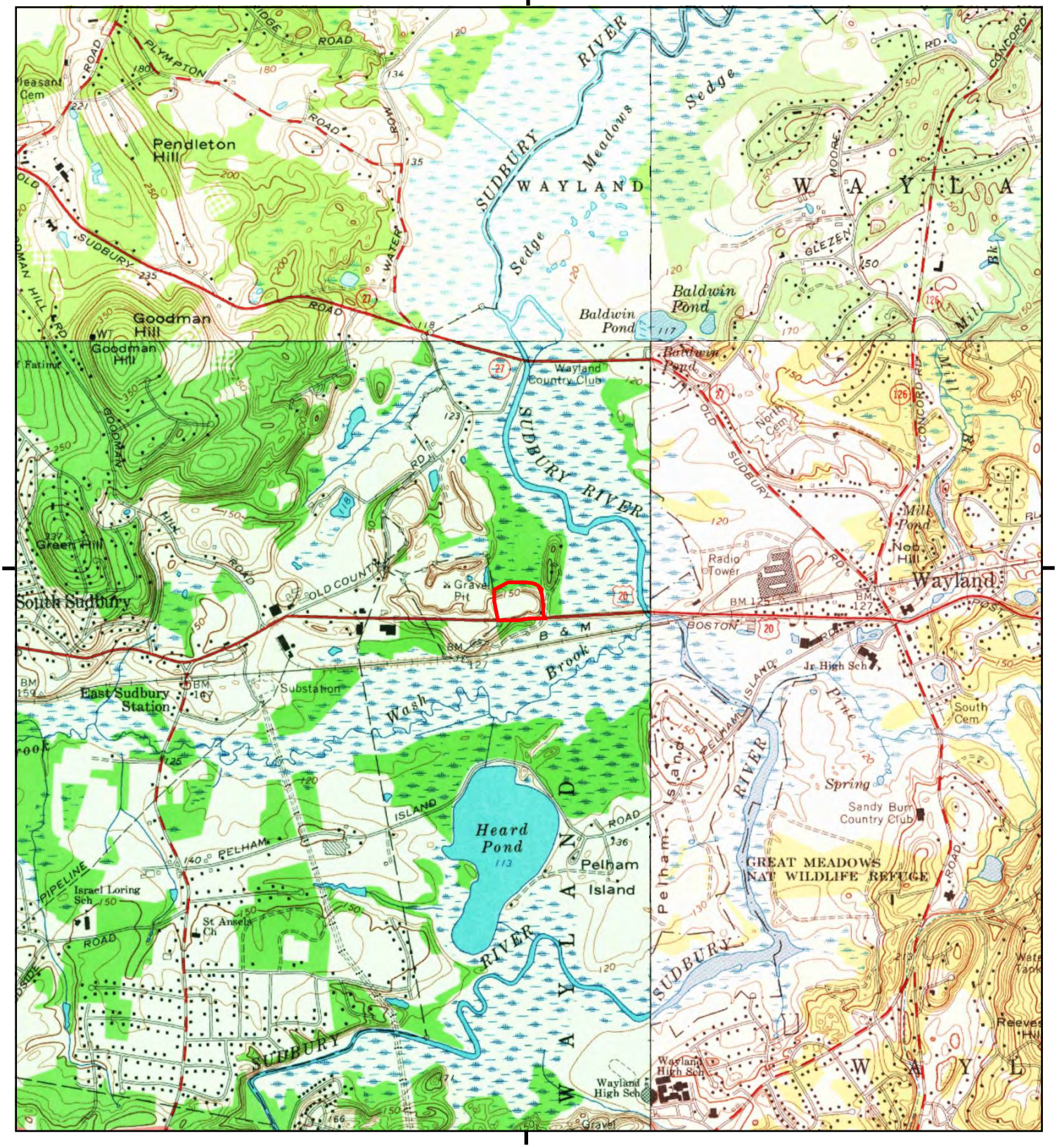
0 Miles 0.25 0.5 1 1.5



SE, Natick, 1970, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N



This report includes information from the following map sheet(s).

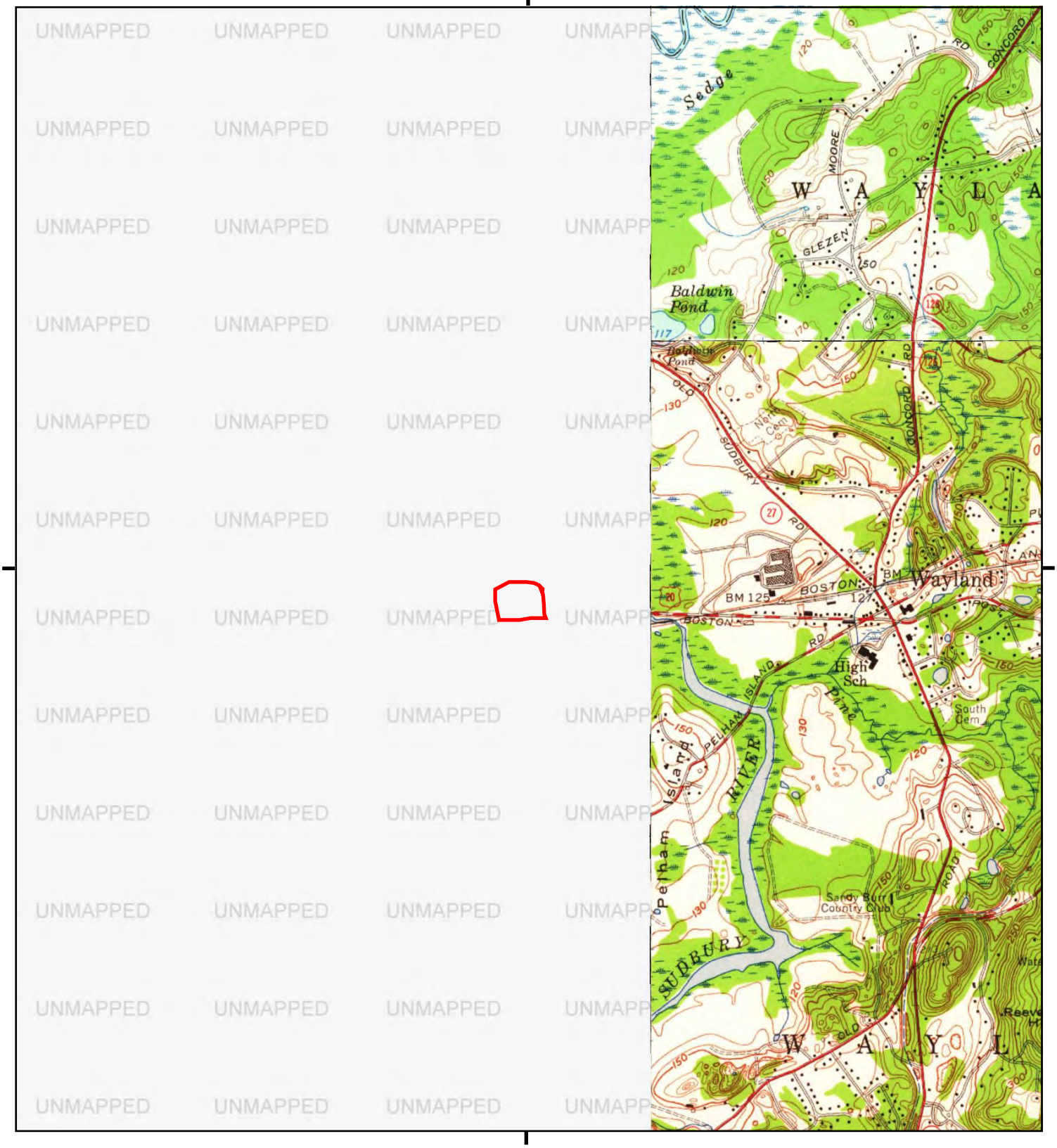
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1965, 7.5-minute
NE, Concord, 1970, 7.5-minute
SE, Natick, 1970, 7.5-minute
NW, Maynard, 1965, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N



This report includes information from the following map sheet(s).

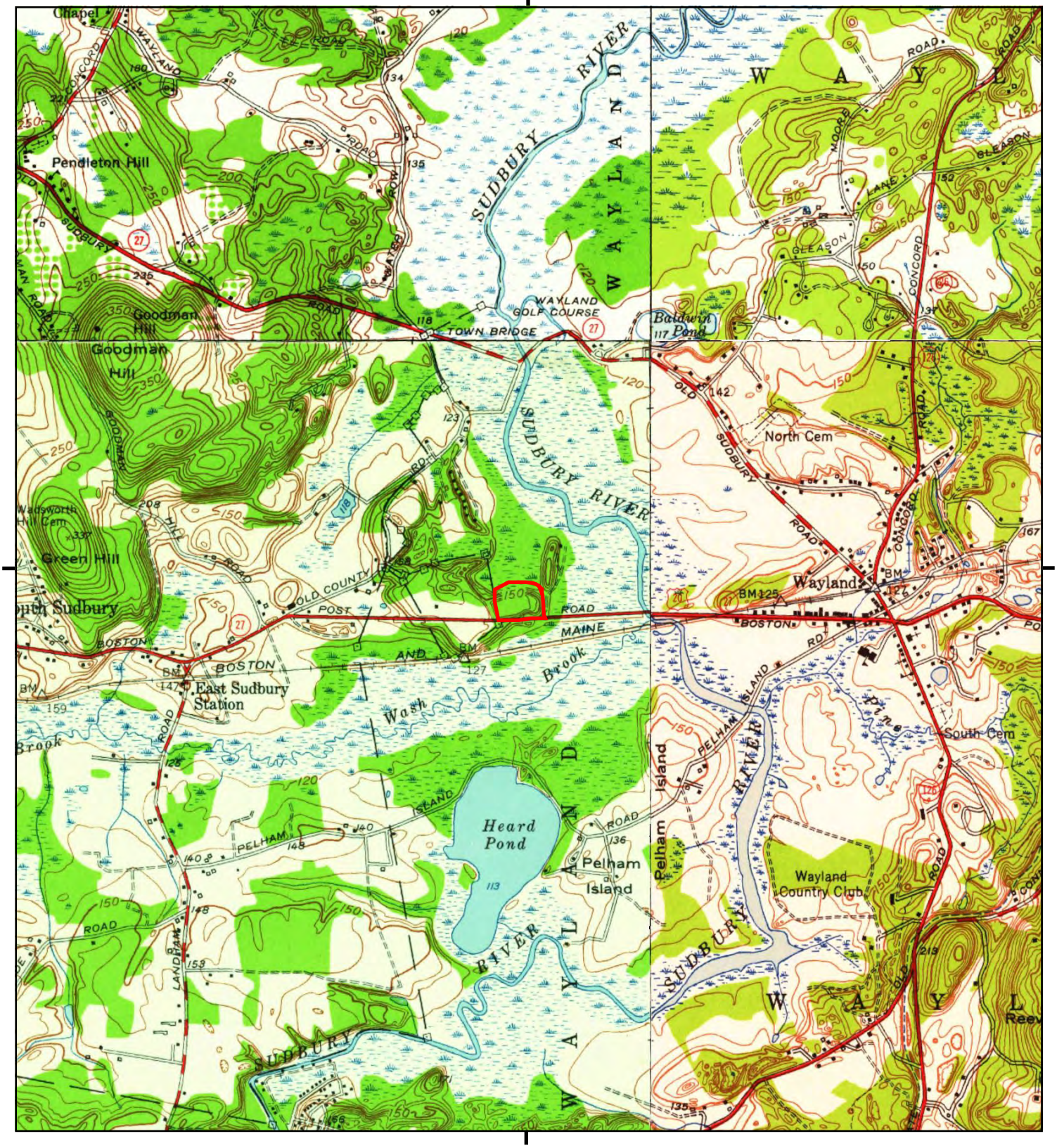
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

NE, Concord, 1958, 7.5-minute
SE, Natick, 1958, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N



This report includes information from the following map sheet(s).

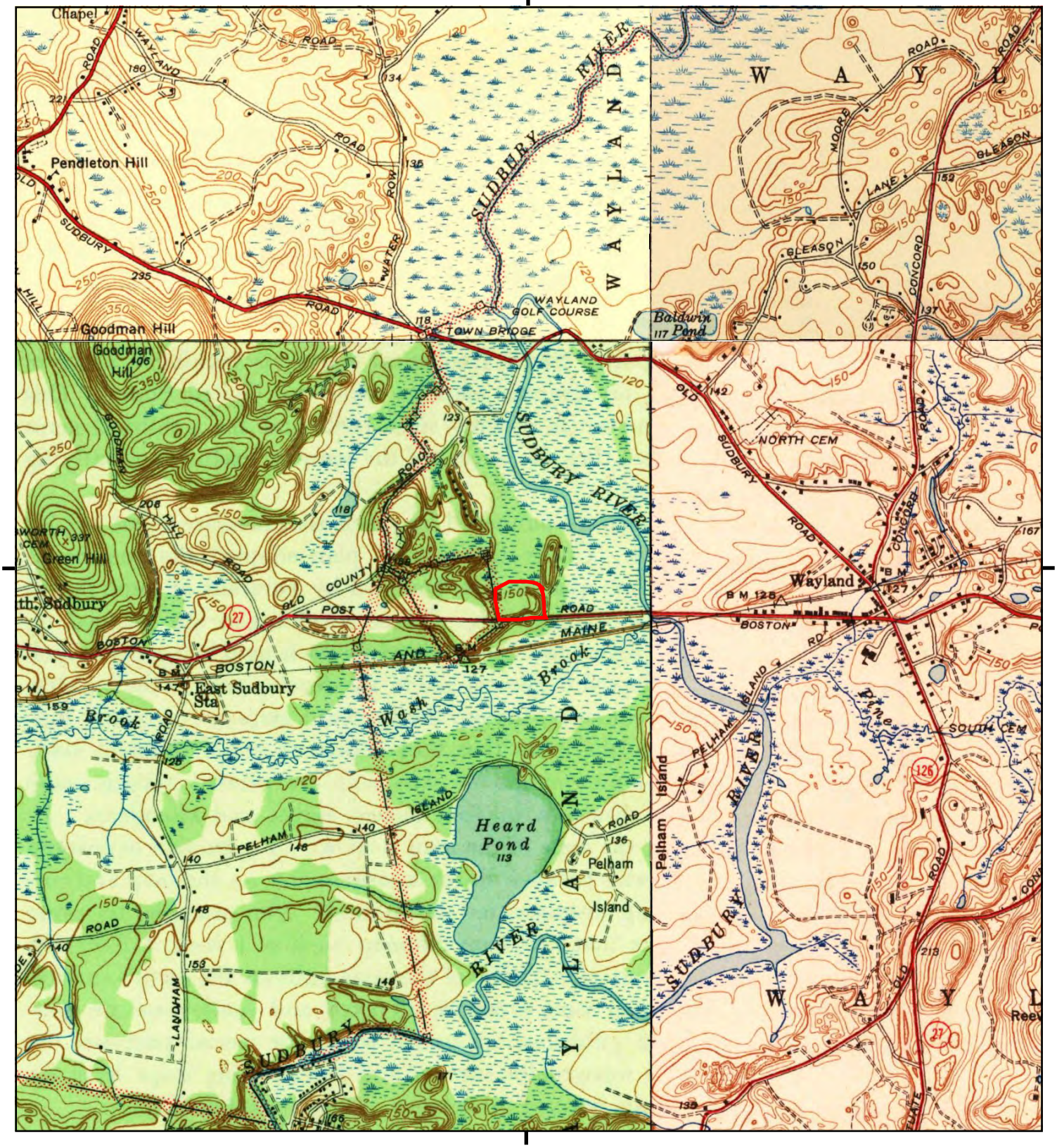
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1950, 7.5-minute
NE, Concord, 1950, 7.5-minute
SE, Natick, 1950, 7.5-minute
NW, Maynard, 1950, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1943, 7.5-minute
NE, Concord, 1943, 7.5-minute
SE, Natick, 1943, 7.5-minute
NW, Maynard, 1943, 7.5-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1918, 15-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N

This report includes information from the following map sheet(s).

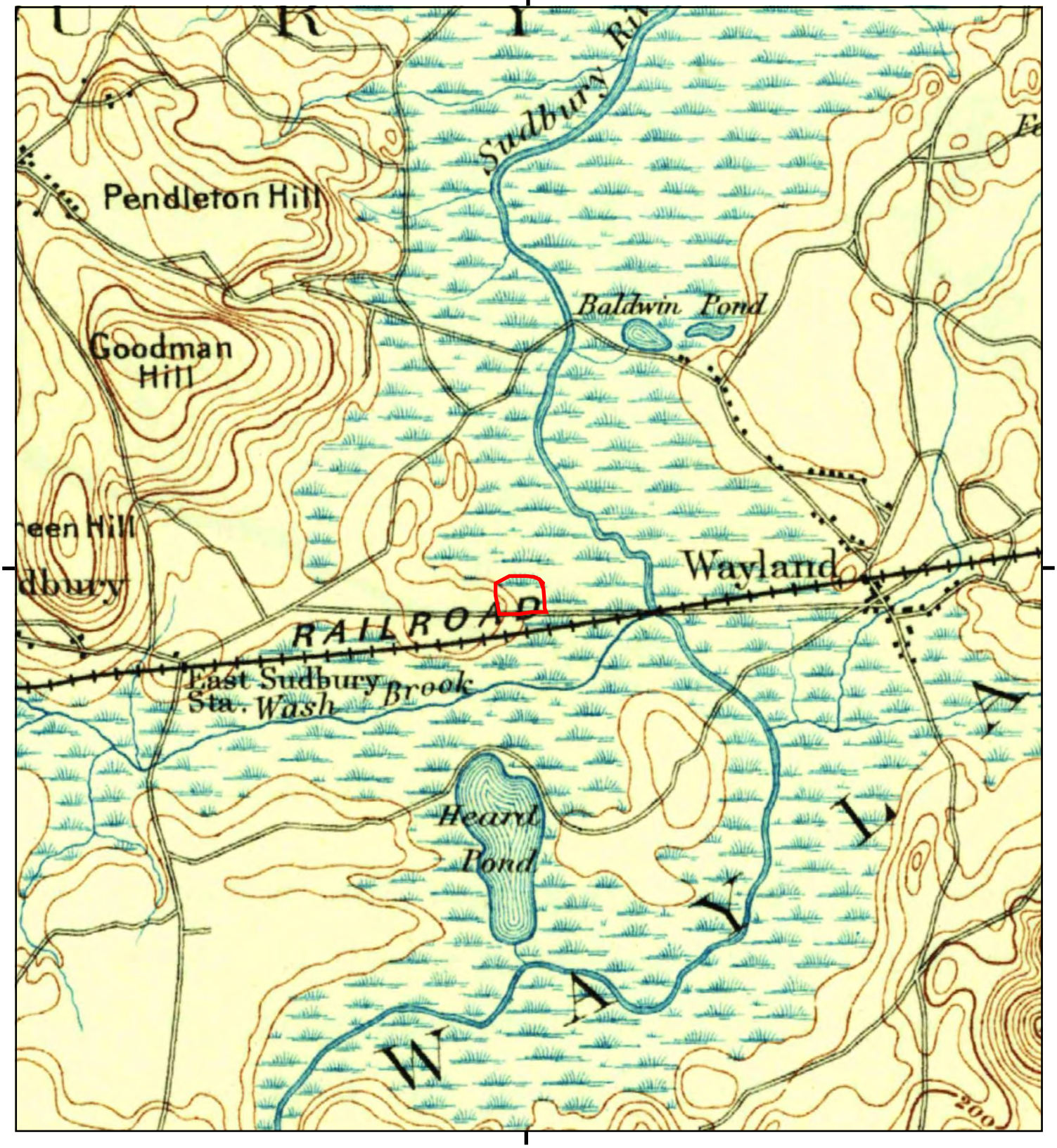
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, FRAMINGHAM, 1915, 15-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Framingham, 1894, 15-minute

SITE NAME: Rivers Edge
ADDRESS: 484 Boston Post Road
Wayland, MA 01778
CLIENT: Vertex Engineering Services

N

APPENDIX H:

SANBORN FIRE INSURANCE MAPS

Rivers Edge

484 Boston Post Road

Wayland, MA 01778

Inquiry Number: 5006034.3

July 27, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/27/17

Site Name:

Rivers Edge
484 Boston Post Road
Wayland, MA 01778
EDR Inquiry # 5006034.3

Client Name:

Vertex Engineering Services
400 Libbey Parkway
Weymouth, MA 02189-0000
Contact: Kristen Sarson

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Vertex Engineering Services were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # E95D-401D-BE45

PO # 46047

Project River s Edge - Wayland

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: E95D-401D-BE45

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Vertex Engineering Services (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

APPENDIX I:

REGULATORY DATABASE REPORT

Rivers Edge
484 Boston Post Road
Wayland, MA 01778

Inquiry Number: 5611734.2s
April 04, 2019

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

484 BOSTON POST ROAD
WAYLAND, MA 01778

COORDINATES

Latitude (North):	42.3636870 - 42° 21' 49.27''
Longitude (West):	71.3821120 - 71° 22' 55.60''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	303835.8
UTM Y (Meters):	4692692.0
Elevation:	140 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5644808 FRAMINGHAM, MA
Version Date:	2012
Northeast Map:	5644804 CONCORD, MA
Version Date:	2012
Southeast Map:	5644826 NATICK, MA
Version Date:	2012
Northwest Map:	5646209 MAYNARD, MA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140904, 20140712
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
484 BOSTON POST ROAD
WAYLAND, MA 01778

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	WAYLAND SANDHILL LAN	484 BOSTON POST RD	RCRA NonGen / NLR, FINDS, ECHO, RI MANIFEST		TP
A2	TOWN OF WAYLAND FORM	484-490 BOSTON POST	MA ASBESTOS		TP
A3	WAYLAND SAND HILL TR	484 BOSTON POST RD	MA SHWS, MA SWF/LF, MA RELEASE, MA ASBESTOS, MA HW...		TP
A4	NEAR LANDFILL	484 BOSTON POST RD	MA RGA HWS		TP
A5	WAYLAND LF	484 BOSTON POST ROAD	FINDS		TP
A6	WAYLAND SAND HILL LA	484 BOSTON POST RD	MA RGA HWS		TP
7	SUDBURY DUMP	DAKIN RD	MA SWF/LF	Lower	777, 0.147, ESE
8	WATERS MANUFACTURING	522 BOSTON POST RD L	MA LAST, MA RELEASE	Higher	910, 0.172, West
9	WATERS MANUFACTURING	BOSTON POST ROAD	SEMS	Higher	1515, 0.287, West
10	MHD STAGING AREA - S	BOSTON POST RD	MA SHWS, MA RELEASE	Lower	1670, 0.316, East
11	PROPERTY	533 BOSTON POST RD	MA SHWS, MA RELEASE, MA SPILLS, MA ASBESTOS, MA HW...	Lower	1800, 0.341, West
12	NO LOCATION AID	6 OLD COUNTY RD	MA SHWS, MA RELEASE	Higher	1972, 0.373, WNW
13	TRANSFER STATION	448 BOSTON POST ROAD	MA MERCURY	Lower	1987, 0.376, East
B14	MA HIGHWAY DEPT	BOSTON POST RD RTE 2	MA SHWS, MA LUST, MA RELEASE	Lower	2177, 0.412, West
B15	DPW TRANSFER STATION	20 BOSTON POST RD	MA SHWS, MA SWF/LF, MA LAST, MA RELEASE, MA HW GEN	Lower	2229, 0.422, West
B16	RICHEY AND CLAPPER I	33 BOSTON POST RD	MA SHWS, MA RELEASE, MA HW GEN	Lower	2285, 0.433, West
B17	NO LOCATION AID	83 BOSTON POST RD	MA SHWS, MA SPILLS, MA RELEASE	Lower	2391, 0.453, West
C18	430 BOSTON POST ROAD	430 BOSTON POST ROAD	SEMS-ARCHIVE, MA SHWS, MA LUST, MA INST CONTROL,...	Lower	2462, 0.466, East
C19	NSTAR GAS & ELECTRIC	MBTA ROW NR400-440BO	MA SHWS, MA RELEASE, MA ENF	Lower	2533, 0.480, East
20	UNION CARBIDE LINDE	141 BOSTON POST RD	MA SHWS, MA LUST, MA SPILLS, MA RELEASE	Lower	3258, 0.617, West
D21	COOKS AUTOMOTIVE OF	356 BOSTON POST RD	MA SHWS, MA LUST, MA UST, MA RELEASE, MA ENF, MA...	Lower	3665, 0.694, East
22	BUDDY DOG ANIMAL HOS	163 BOSTON POST RD	MA SHWS, MA RELEASE, MA ASBESTOS	Lower	3718, 0.704, WSW
D23	334-338 BOSTON POST	338 BOSTON POST ROAD	MA SHWS, MA RELEASE, MA ENF, MA HW GEN	Lower	3824, 0.724, East
D24	NO LOCATION AID	325 BOSTON POST RD	MA SHWS, MA LUST, MA RELEASE, MA ASBESTOS	Lower	3898, 0.738, East
25	NO LOCATION AID	86 OLD SUDBURY ROAD	MA SHWS, MA RELEASE	Higher	3954, 0.749, NE
26	NO LOCATION AID	19 HAWTHORNE ROAD	MA SHWS, MA RELEASE	Lower	4195, 0.795, SW
E27	WAYLAND CLEANERS	304 BOSTON POST RD	MA SHWS, MA RELEASE, MA UIC	Lower	4264, 0.808, East
28	WAYLAND VILLAGE	297-319 BOSTON POST	MA SHWS, MA RELEASE	Lower	4282, 0.811, East
E29	RTE 20	298 BOSTON POST RD	MA SHWS, MA RELEASE, MA DRYCLEANERS, MA ENF, MA HW...	Lower	4352, 0.824, East
E30	SEPTAGE FACILITY	BOSTON POST RD	MA SHWS, MA RELEASE	Lower	4430, 0.839, East
31	NO LOCATION AID	BOSTON POST ROAD AT	MA SHWS, MA RELEASE	Higher	4816, 0.912, West
32	SUDBURY AUTOMOTIVE	209 BOSTON POST RD	MA SHWS, MA LUST, MA UST, MA RELEASE, MA HW GEN	Higher	5199, 0.985, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
WAYLAND SANDHILL LAN 484 BOSTON POST RD WAYLAND, MA 01778	RCRA NonGen / NLR EPA ID:: MAR000015388 FINDS Registry ID:: 110003500658 ECHO Registry ID: 110003500658 RI MANIFEST EPA Id: MAR000015388 Manifest Document Number: RIG0233554	MAR000015388
TOWN OF WAYLAND FORM 484-490 BOSTON POST WAYLAND, MA	MA ASBESTOS	N/A
WAYLAND SAND HILL TR 484 BOSTON POST RD WAYLAND, MA 01778	MA SHWS Release Tracking Number / Current Status: 3-0034474 / TIERI Release Tracking Number / Current Status: 3-0024698 / RAO Release Tracking Number / Current Status: 3-0027741 / RAO MA SWF/LF Database: LF PROFILES, Date of Government Version: 07/01/2015 Database: SWF/LF, Date of Government Version: 05/01/2018 Current Operational Status: Inactive Current Operational Status: Active Status: Inactive MA RELEASE Release Tracking Number / Current Status: 3-0024698 / RAO Release Tracking Number / Current Status: 3-0027741 / RAO Release Tracking Number / Current Status: 3-0034474 / TIERI MA ASBESTOS MA HW GEN EPA Id: MAR000015388	N/A
NEAR LANDFILL 484 BOSTON POST RD WAYLAND, MA	MA RGA HWS Facility ID: 3-0027741	N/A
WAYLAND LF 484 BOSTON POST ROAD WAYLAND, MA 01778	FINDS Registry ID:: 110060462244	N/A
WAYLAND SAND HILL LA 484 BOSTON POST RD WAYLAND, MA	MA RGA HWS	N/A

EXECUTIVE SUMMARY

Facility ID: 3-0024698

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
MA AST ---------- Aboveground Storage Tank Database
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

MA BROWNFIELDS ---------- Completed Brownfields Covenants Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
US CDL ---------- National Clandestine Laboratory Register

Local Land Records

MA LIENS ---------- Liens Information Listing
LIENS 2 ---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
MA SPILLS 90 ---------- SPILLS 90 data from FirstSearch
MA SPILLS 80 ---------- SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information

EXECUTIVE SUMMARY

EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
MA AIRS	Permitted Facilities Listing
MA Financial Assurance	Financial Assurance Information Listing
MA GWDP	Ground Water Discharge Permits
MA NPDES	NPDES Permit Listing
MA TSD	TSD Facility

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

MA RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 02/06/2019 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WATERS MANUFACTURING Site ID: 0101528 EPA Id: MAD982547424	BOSTON POST ROAD	W 1/4 - 1/2 (0.287 mi.)	9	32

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 02/06/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
430 BOSTON POST ROAD	***430 BOSTON POST ROAD***	***E 1/4 - 1/2 (0.466 mi.)***	***C18***	***65***

Site ID: 0100949
EPA Id: MAD990685554

State- and tribal - equivalent CERCLIS

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

A review of the MA SHWS list, as provided by EDR, and dated 12/21/2018 has revealed that there are 22 MA SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID	***6 OLD COUNTY RD***	***WNW 1/4 - 1/2 (0.373 mi.)***	***12***	***40***
Release Tracking Number / Current Status: 3-0025622 / RAO				
NO LOCATION AID	***86 OLD SUDBURY ROAD***	***NE 1/2 - 1 (0.749 mi.)***	***25***	***168***
Release Tracking Number / Current Status: 3-0032618 / PSNC				
NO LOCATION AID	***BOSTON POST ROAD AT***	***W 1/2 - 1 (0.912 mi.)***	***31***	***191***
Release Tracking Number / Current Status: 3-0027224 / URAM				
SUDBURY AUTOMOTIVE	***209 BOSTON POST RD***	***W 1/2 - 1 (0.985 mi.)***	***32***	***192***
Release Tracking Number / Current Status: 3-0033240 / TIERII				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MHD STAGING AREA - S	***BOSTON POST RD***	***E 1/4 - 1/2 (0.316 mi.)***	***10***	***34***
Release Tracking Number / Current Status: 3-0027875 / RAO				
PROPERTY	***533 BOSTON POST RD***	***W 1/4 - 1/2 (0.341 mi.)***	***11***	***37***
Release Tracking Number / Current Status: 3-0003351 / RAO				
MA HIGHWAY DEPT	***BOSTON POST RD RTE 2***	***W 1/4 - 1/2 (0.412 mi.)***	***B14***	***42***
Release Tracking Number / Current Status: 3-0018306 / RAO				
DPW TRANSFER STATION	***20 BOSTON POST RD***	***W 1/4 - 1/2 (0.422 mi.)***	***B15***	***46***
Release Tracking Number / Current Status: 3-0029909 / ADQREG				
Release Tracking Number / Current Status: 3-0033503 / ADQREG				
Release Tracking Number / Current Status: 3-0034148 / PSNC				
Release Tracking Number / Current Status: 3-0023624 / ADQREG				
RICHEY AND CLAPPER I	***33 BOSTON POST RD***	***W 1/4 - 1/2 (0.433 mi.)***	***B16***	***61***
Release Tracking Number / Current Status: 3-0029754 / RAO				
NO LOCATION AID	***83 BOSTON POST RD***	***W 1/4 - 1/2 (0.453 mi.)***	***B17***	***63***
Release Tracking Number / Current Status: 3-0021843 / DPS				
430 BOSTON POST ROAD	***430 BOSTON POST ROAD***	***E 1/4 - 1/2 (0.466 mi.)***	***C18***	***65***
Release Tracking Number / Current Status: 3-0033752 / DPS				
Release Tracking Number / Current Status: 3-0001783 / RAO				
Release Tracking Number / Current Status: 3-0013302 / REMOPS				
Release Tracking Number / Current Status: 3-0019482 / RAONR				
Release Tracking Number / Current Status: 3-0013574 / RAONR				
**Additional key fields are available in the Map Findings section*				
NSTAR GAS & ELECTRIC	***MBTA ROW NR400-440BO***	***E 1/4 - 1/2 (0.480 mi.)***	***C19***	***131***
Release Tracking Number / Current Status: 3-0026027 / DEPNFA				
UNION CARBIDE LINDE	***141 BOSTON POST RD***	***W 1/2 - 1 (0.617 mi.)***	***20***	***134***

Release Tracking Number / Current Status: 3-0002545 / WCSPRM

COOKS AUTOMOTIVE OF	***356 BOSTON POST RD***	***E 1/2 - 1 (0.694 mi.)***	***D21***	***137***
Release Tracking Number / Current Status: 3-0017974 / RAO				
BUDDY DOG ANIMAL HOS	***163 BOSTON POST RD***	***WSW 1/2 - 1 (0.704 mi.)***	***22***	***155***
Release Tracking Number / Current Status: 3-0018895 / RAO				
334-338 BOSTON POST	***338 BOSTON POST ROAD***	***E 1/2 - 1 (0.724 mi.)***	***D23***	***160***
Release Tracking Number / Current Status: 3-0030287 / TMPS				
NO LOCATION AID	***325 BOSTON POST RD***	***E 1/2 - 1 (0.738 mi.)***	***D24***	***162***
Release Tracking Number / Current Status: 3-0029040 / DPS				
NO LOCATION AID	***19 HAWTHORNE ROAD***	***SW 1/2 - 1 (0.795 mi.)***	***26***	***171***
Release Tracking Number / Current Status: 3-0030271 / RAO				
WAYLAND CLEANERS	***304 BOSTON POST RD***	***E 1/2 - 1 (0.808 mi.)***	***E27***	***172***
Release Tracking Number / Current Status: 3-0025196 / DPS				
Release Tracking Number / Current Status: 3-0025637 / RAONR				
WAYLAND VILLAGE	***297-319 BOSTON POST***	***E 1/2 - 1 (0.811 mi.)***	***28***	***180***
Release Tracking Number / Current Status: 3-0031423 / DPS				
RTE 20	***298 BOSTON POST RD***	***E 1/2 - 1 (0.824 mi.)***	***E29***	***182***
Release Tracking Number / Current Status: 3-0022753 / REMOPS				
SEPTAGE FACILITY	***BOSTON POST RD***	***E 1/2 - 1 (0.839 mi.)***	***E30***	***190***
Release Tracking Number / Current Status: 3-0001724 / DEPNDS				

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

MA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Protection's Solid Waste Facility Database/Transfer Stations.

A review of the MA SWF/LF list, as provided by EDR, has revealed that there are 2 MA SWF/LF sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SUDBURY DUMP	DAKIN RD	ESE 1/8 - 1/4 (0.147 mi.)	7	29
Database: SWF/LF, Date of Government Version: 05/01/2018				
Current Operational Status: Inactive				
DPW TRANSFER STATION	***20 BOSTON POST RD***	***W 1/4 - 1/2 (0.422 mi.)***	***B15***	***46***
Database: LF PROFILES, Date of Government Version: 07/01/2015				
Database: SWF/LF, Date of Government Version: 05/01/2018				
Current Operational Status: Closed				
Current Operational Status: Active				
Status: Closed				

State and tribal leaking storage tank lists

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

A review of the MA LUST list, as provided by EDR, and dated 12/21/2018 has revealed that there are 2

MA LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MA HIGHWAY DEPT	***BOSTON POST RD RTE 2***	***W 1/4 - 1/2 (0.412 mi.)***	***B14***	***42***
Release Tracking Number / Current Status: 3-0014245 / RAO				
430 BOSTON POST ROAD	***430 BOSTON POST ROAD***	***E 1/4 - 1/2 (0.466 mi.)***	***C18***	***65***
Release Tracking Number / Current Status: 3-0013302 / REMOPS				
Release Tracking Number / Current Status: 3-0027651 / DPS				

MA LAST: The Leaking Aboveground Storage Tanks database

A review of the MA LAST list, as provided by EDR, and dated 12/21/2018 has revealed that there are 2 MA LAST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WATERS MANUFACTURING	***522 BOSTON POST RD L***	***W 1/8 - 1/4 (0.172 mi.)***	***8***	***30***
Release Tracking Number / Current Status: 3-0000059 / RAO				

Lower Elevation	Address	Direction / Distance	Map ID	Page
DPW TRANSFER STATION	***20 BOSTON POST RD***	***W 1/4 - 1/2 (0.422 mi.)***	***B15***	***46***
Release Tracking Number / Current Status: 3-0017083 / RAO				

State and tribal institutional control / engineering control registries

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

A review of the MA INST CONTROL list, as provided by EDR, and dated 12/21/2018 has revealed that there is 1 MA INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
430 BOSTON POST ROAD	***430 BOSTON POST ROAD***	***E 1/4 - 1/2 (0.466 mi.)***	***C18***	***65***
Release Tracking Number: 3-0013302				
Release Tracking Number: 3-0013574				
Release Tracking Number: 3-0022408				

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

MA MERCURY: A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

A review of the MA MERCURY list, as provided by EDR, and dated 05/07/2018 has revealed that there is

EXECUTIVE SUMMARY

1 MA MERCURY site within approximately 0.5 miles of the target property.

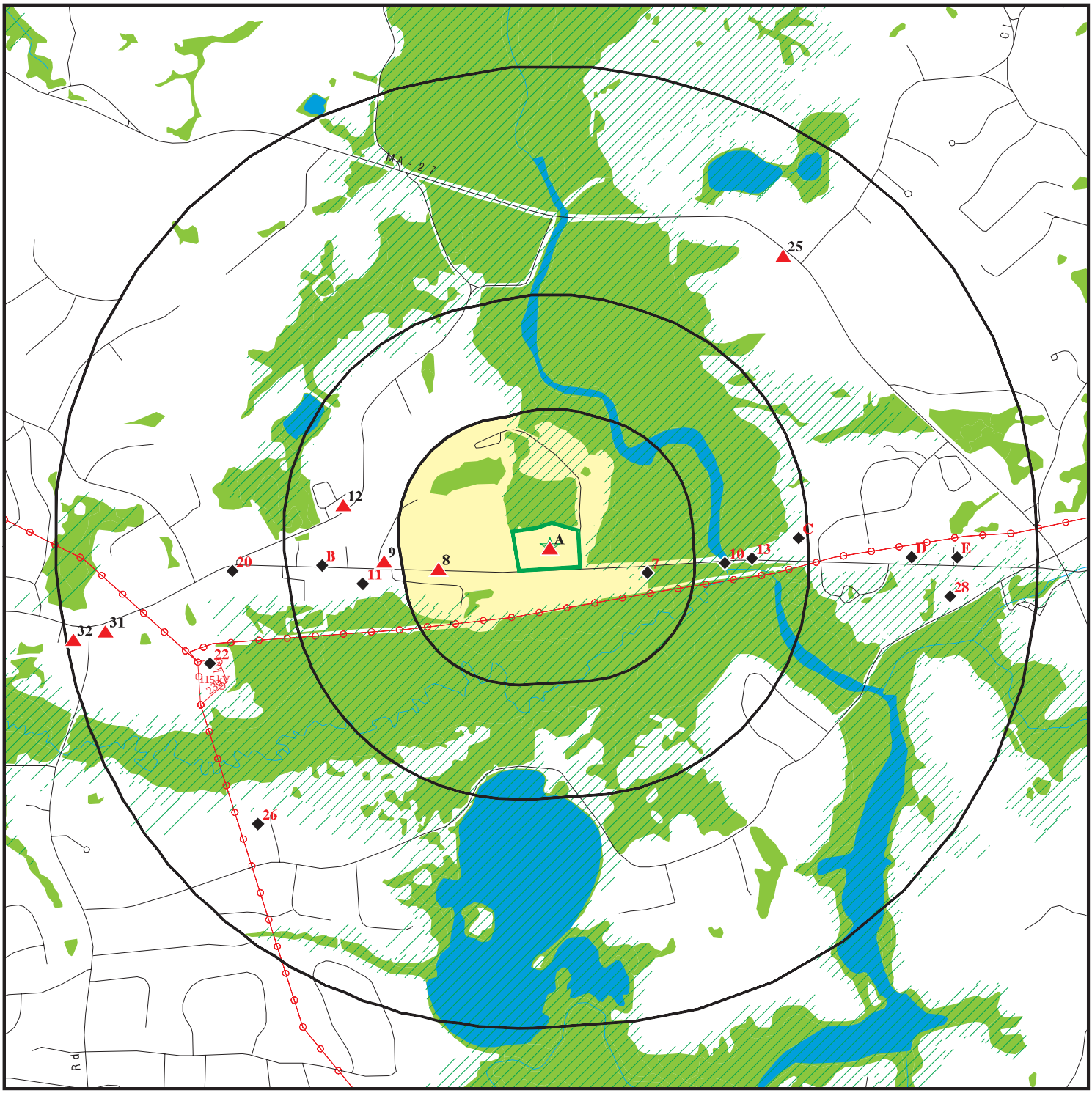
Lower Elevation	Address	Direction / Distance	Map ID	Page
TRANSFER STATION	448 BOSTON POST ROAD	E 1/4 - 1/2 (0.376 mi.)	13	42

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
INTERSECTION	MA SHWS, MA RELEASE
CONCORD ST	MA SHWS, MA RELEASE
NO LOCATION AID	MA SHWS, MA RELEASE
MUNICIPAL ROADWAY	MA SHWS, MA RELEASE
SAND HILL SANITARY LANDFILL	ODI

OVERVIEW MAP - 5611734.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

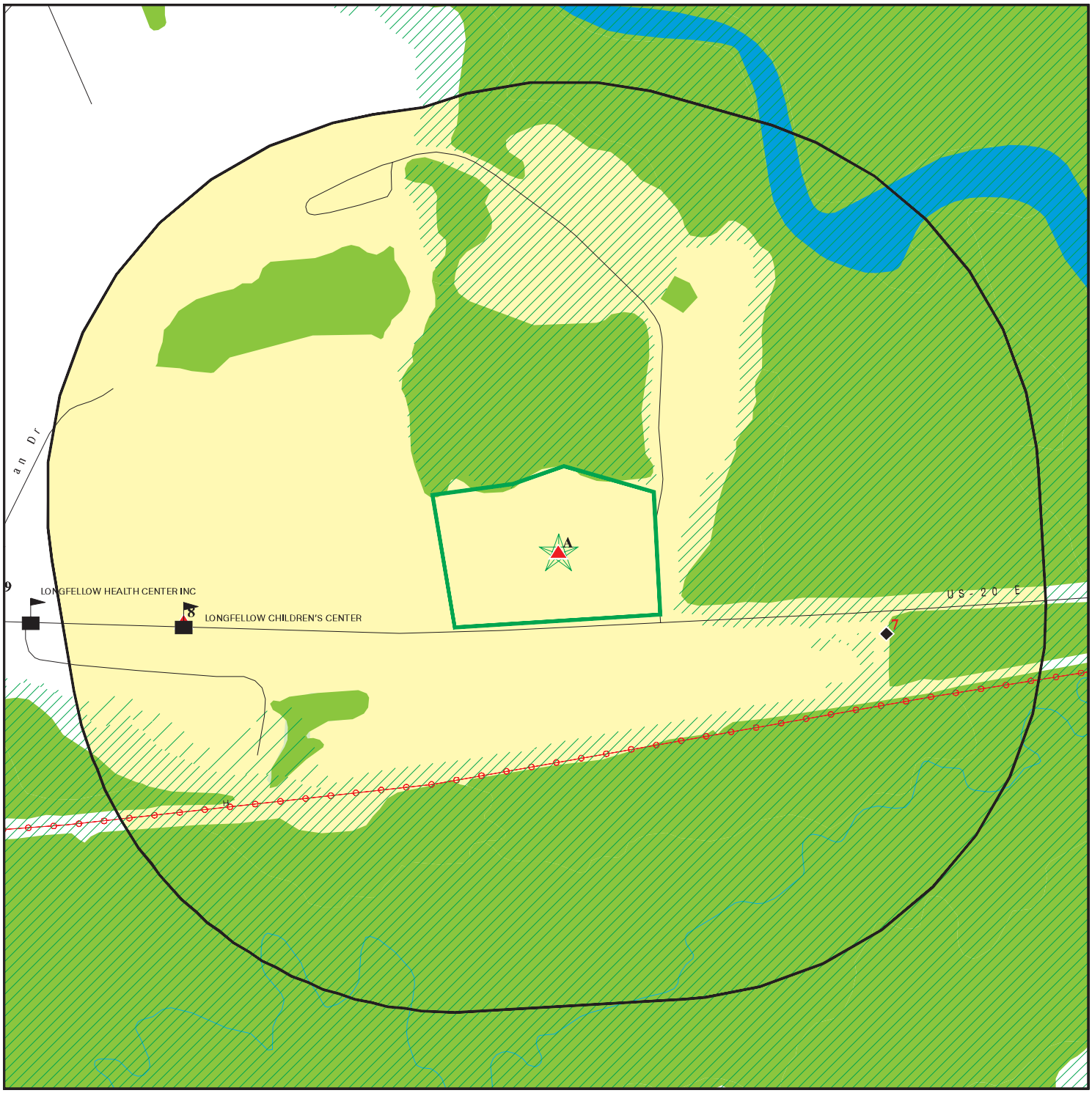
Areas of Critical Environmental Concern

N

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

SITE NAME: Rivers Edge	CLIENT: The Vertex Companies, Inc.
ADDRESS: 484 Boston Post Road Wayland MA 01778	CONTACT: Kristen Sarson
LAT/LONG: 42.363687 / 71.382112	INQUIRY #: 5611734.2s DATE: April 04, 2019 3:55 pm

DETAIL MAP - 5611734.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

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

SITE NAME:	Rivers Edge	CLIENT:	The Vertex Companies, Inc.
ADDRESS:	484 Boston Post Road Wayland MA 01778	CONTACT:	Kristen Sarson
LAT/LONG:	42.363687 / 71.382112	INQUIRY #:	5611734.2s
		DATE:	April 04, 2019 3:57 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
MA SHWS	1.000	1	0	0	9	13	NR	23
State and tribal landfill and/or solid waste disposal site lists								
MA SWF/LF	0.500	1	0	1	1	NR	NR	3
State and tribal leaking storage tank lists								
MA LUST	0.500		0	0	2	NR	NR	2
MA LAST	0.500		0	1	1	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MA UST	0.250		0	0	NR	NR	NR	0
MA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
MA INST CONTROL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
MA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
MA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
MA SPILLS	TP		NR	NR	NR	NR	NR	0
MA RELEASE	TP	1	NR	NR	NR	NR	NR	1
MA SPILLS 90	TP		NR	NR	NR	NR	NR	0
MA SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
MA AIRS	TP		NR	NR	NR	NR	NR	0
MA ASBESTOS	TP	2	NR	NR	NR	NR	NR	2
MA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MA ENF	TP		NR	NR	NR	NR	NR	0
MA Financial Assurance	TP		NR	NR	NR	NR	NR	0
MA GWDP	TP		NR	NR	NR	NR	NR	0
MA HW GEN	0.250	1	0	0	NR	NR	NR	1
NY MANIFEST	0.250		0	0	NR	NR	NR	0
RI MANIFEST	0.250	1	0	0	NR	NR	NR	1
MA MERCURY	0.500		0	0	1	NR	NR	1
MA NPDES	TP		NR	NR	NR	NR	NR	0
MA TIER 2	TP		NR	NR	NR	NR	NR	0
MA TSD	0.500		0	0	0	NR	NR	0
MA UIC	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
MA RGA HWS	TP	2	NR	NR	NR	NR	NR	2
MA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		13	0	2	17	13	0	45

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

WAYLAND SANDHILL LANDFILL
484 BOSTON POST RD
WAYLAND, MA 01778

RCRA NonGen / NLR **1004718305**
FINDS **MAR000015388**
ECHO
RI MANIFEST

Site 1 of 6 in cluster A

Actual:
140 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/09/2000
Facility name:	WAYLAND SANDHILL LANDFILL
Facility address:	484 BOSTON POST RD WAYLAND, MA 01778
EPA ID:	MAR000015388
Contact:	CHARLES KILEY
Contact address:	484 BOSTON POST RD WAYLAND, MA 01778
Contact country:	US
Contact telephone:	508-358-7910
Contact email:	Not reported
EPA Region:	01
Land type:	Municipal
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	TOWN OF WAYLAND
Owner/operator address:	484 BOSTON POST RD WAYLAND, MA 01778
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Owner/operator name:	WAYLAND SANDHILL LANDFILL
Owner/operator address:	484 BOSTON POST RD WAYLAND, MA 01778
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/09/1991
Owner/Op end date:	Not reported

Owner/operator name:	TOWN OF WAYLAND BOARD OF HEALTH
Owner/operator address:	484 BOSTON POST RD WAYLAND, MA 01778
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

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

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

. Waste code: MA01
. Waste name: MA01

Facility Has Received Notices of Violations:
Regulation violated: SR - 30.340
Area of violation: Generators - General
Date violation determined: 01/31/2001
Date achieved compliance: 01/09/2003
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 01/31/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/09/2003
Evaluation lead agency: State

FINDS:

Registry ID: 110003500658

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004718305
Registry ID:	110003500658
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003500658

RI MANIFEST:

EPA Id:	MAR000015388
GEN Cert Date:	4/14/2004
Manifest Document Number:	RIG0233554
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
TSDF Id:	RID084802842
TSDF Name:	United Oil Recovery Inc
Qty:	75
WT/Vol Units:	G
TSDF Date:	4/14/2004
Transporter 2 Id:	Not reported
Item Number:	2652
Transporter 2 Name:	Not reported
Transporter Name 2:	CYCLE SOLVE CORPORATION
Transporter EPAID:	RID982194987
Transporter Receipt Date:	4/14/2004
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Fee Exempt Code:	Not reported
Comment:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
Quarter:	Not reported
Transporter Contact Name:	Not reported
Transporter Contact Email:	Not reported
Filing Date:	Not reported
Total Fee:	Not reported
Billing Name:	Not reported
Paid Date:	Not reported
Paid Time:	Not reported
Facility Receipt Date:	Not reported
Fee:	Not reported
Manifest Created Date:	Not reported

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

Manifest Updated Date: Not reported

RI MANIFEST:

Transporter Receipt Date:	5/12/2006
Number Of Containers:	1
Container Type:	DM
Waste Code1:	F003
Waste Code2:	F005
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0282861
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS,
Transporter Contact Name:	Not reported
Quantity:	55
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	a
Transporter Name:	CYCLE SOLVE CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/12/2006
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	5/12/2006
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported

Transporter Receipt Date:	5/12/2006
Number Of Containers:	1
Container Type:	DM
Waste Code1:	F003
Waste Code2:	F005
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0282861
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS,
Transporter Contact Name:	Not reported
Quantity:	55
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	a
Transporter Name:	CYCLE SOLVE CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/12/2006
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	5/12/2006
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	1/21/2005
Number Of Containers:	1
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0250206
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	55
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	a
Transporter Name:	UNITED INDUSTRIAL SERVICES
Billing Name:	Not reported
Transporter EPA ID:	CTD021816889

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	1/21/2005
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	1/21/2005
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	1/21/2005
Number Of Containers:	1
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0250206
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	55
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	8801
Transporter Name:	UNITED INDUSTRIAL SERVICES
Billing Name:	Not reported
Transporter EPA ID:	CTD021816889
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	1/21/2005
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	1/21/2005
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	1/21/2005
Number Of Containers:	1
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0250206
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	55
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	a
Transporter Name:	UNITED INDUSTRIAL SERVICES
Billing Name:	Not reported
Transporter EPA ID:	CTD021816889
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	1/21/2005
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	1/21/2005
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	1/21/2005
Number Of Containers:	1
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0250206
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

Quantity:	55
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	8801
Transporter Name:	UNITED INDUSTRIAL SERVICES
Billing Name:	Not reported
Transporter EPA ID:	CTD021816889
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	1/21/2005
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	1/21/2005
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	4/14/2004
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0233554
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	75
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	15102
Transporter Name:	CYCLE SOLVE CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	4/14/2004
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

TSDF Receipt Date:	4/14/2004
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	4/14/2004
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0233554
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	75
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	17035
Transporter Name:	CYCLE SOLVE CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	4/14/2004
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	4/14/2004
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	4/14/2004
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0233554
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	75
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	a
Transporter Name:	CYCLE SOLVE CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	4/14/2004
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	4/14/2004
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	4/14/2004
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0233554
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	75
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	15102
Transporter Name:	CYCLE SOLVE CORPORATION

WAYLAND SANDHILL LANDFILL (Continued) **1004718305**

Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	4/14/2004
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	4/14/2004
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	4/14/2004
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	F003
Waste Code3:	F005
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	United Oil Recovery Inc
TSDF Id:	RID084802842
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000015388
Manifest Docket Number:	RIG0233554
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUID NOS
Transporter Contact Name:	Not reported
Quantity:	75
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	17035
Transporter Name:	CYCLE SOLVE CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	RID982194987
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	4/14/2004
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	4/14/2004
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported

Click this hyperlink while viewing on your computer to access
4 additional RI_MANIFEST: record(s) in the EDR Site Report.

A2
Target Property
TOWN OF WAYLAND FORMER PUBLIC WORKS STAGING YARD
484-490 BOSTON POST ROAD
WAYLAND, MA

MA ASBESTOS **S123243019**
N/A

Site 2 of 6 in cluster A

Actual:
140 ft.

ASBESTOS:

Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	11/30/2018
End Date:	12/31/2018
Date Entered:	Not reported
Entry Date:	11/26/2018
Quantity Materical Removed SF:	0
Quantity Material Removed LF:	Not reported
Project Description:	Not reported
AR Tracking ID:	308800
Super Lic Number:	AS061891
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	2018
Sticker Number:	100298886
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	0000000000
Sub Town:	Not reported
Worksite:	N/A
Occupied:	0
Contractor:	AC000934
Contract Type:	WRITTEN
Hours:	7-3:30
Project Type:	Oth:BULK LOADING OF ACM SOIL
Abatement Process:	oth:BULK LOADING OF 3,200 TNS OF ACM CONTAMINATED
Location:	OUTDOORS
Decon Process:	TRUCK WASH 3 STAGE PERSONNEL DECON
Disposal Methods:	MATERIAL WILL BE KEPT WET DURING LOADING OPERATIONS. THE TRAILER WILL HAVE TWO PREFORMED 10 MIL LINERS SIZED AND FORMED TO THE TRAILERS. LINERS WILL BE FOLDED INWARD AND SEALED, LABELED WITH EPA AND OSHA HAZARD LABELS AND GENERATOR LABEL.
Facility Usage:	STOCKPILE
Waiver Given:	Not reported
DEP Waiver Number:	NAW1811399
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	TOWN OF WAYLAND
Owner Address:	41 COCHITUATE ROAD
Owner City:	WAYLAND
Owner State:	MA
On Site Manager Name:	PAUL BRINKMAN
On Site Manager Phone:	0000000000
Ins Comp:	THE HARTFORD
Policy Number:	08 WEA EK9075
EXP Date:	1/1/2019
Facility Size:	0
Transporter Name:	W.L. FRENCH EXCAVATING CORP
Transporter Address:	3 SURVEY CIRCLE
Transporter City:	NORTH BILLERICA
Transporter State:	MA

TOWN OF WAYLAND FORMER PUBLIC WORKS STAGING YARD (Continued) **S123243019**

Final Site:	Not reported
Certified Name:	TIM HUNT
Cert Sign Date:	11/26/2018
Certified Company:	W.L. FRENCH EXCAVATING CORP
Certified Phone:	9786002118
Entered_by:	WLFRENCH

A3 **WAYLAND SAND HILL TRANSFER STATION** **MA SHWS** **S100255721**
Target **484 BOSTON POST RD** **MA SWF/LF** **N/A**
Property **WAYLAND, MA 01778** **MA RELEASE**
MA ASBESTOS
Site 3 of 6 in cluster A **MA HW GEN**

Actual: **140 ft.**

SHWS:

Facility ID:	3-0034474
Source Type:	DEMOLITION
Release Town:	WAYLAND
Notification Date:	08/14/2017
Category:	TWO HR
Associated ID:	Not reported
Current Status:	TIERI
Status Date:	08/14/2018
Phase:	PHASE II
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Facility ID:	3-0034474
Source Type:	WASTE
Release Town:	WAYLAND
Notification Date:	08/14/2017
Category:	TWO HR
Associated ID:	Not reported
Current Status:	TIERI
Status Date:	08/14/2018
Phase:	PHASE II
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Facility ID:	3-0027741
Source Type:	VEHICLE
Release Town:	WAYLAND
Notification Date:	06/03/2008
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAO
Status Date:	07/29/2008
Phase:	Not reported
Response Action Outcome:	A2
Oil Or Haz Material:	Oil

Facility ID:	3-0024698
Source Type:	DRUMS
Release Town:	WAYLAND
Notification Date:	03/18/2005
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAO
Status Date:	05/17/2005

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

Phase: Not reported
Response Action Outcome: A1
Oil Or Haz Material: Oil

LF:
Facility Phone: (508)358-7910
Annual Tons for 1995: 3071
Annual Tons for 1996: 2876
Annual Tons for 1997: 2678
Annual Tons for 1998: 2371
Annual Tons for 1999: 2321
Annual Tons for 2000: 2345
Annual Tons for 2001: 2346
Annual Tons for 2002: 2438
Annual Tons for 2003: 2696
Annual Tons for 2004: 2261
Annual Tons for 2005: 2041
Annual Tons for 2006: 3024
Annual Tons for 2007: 2813
Annual Tons for 2008: 1256
Annual Tons for 2009: Not reported
Annual Tons for 2010: Not reported
Annual Tons for 2011: Not reported
Annual Tons for 2012: Not reported
Annual Tons for 2013: Not reported
Annual Tons for 2014: Not reported
Annual Tons for 2015: Not reported
Reg Obj Acct ID Num For Each Solid Waste Operation: 173050
Days of Operation: 156
Note On The Physical Location Of The Site: SANDY HILL ROAD
Acres: 5
Active Year: 1980
Classification Group: Land Disposal
Current Or Most Recent Closed Classification: CSU-LF
Description Of The Last Classification: Landfill Closure Status Unknown
Close Year: Not reported
Name Of The Organization: WAYLAND BOARD OF HEALTH
Contacts Organization Type: Municipal
Contact Persons Name And Title: GEORGE W RUSSELL, SUPERINTENDENT
Contact Phone Including Extension: (508)358-7910
Contact Mailing Street Address: 484 BOSTON POST RD
Contacts Mailing City, State, Zip: WAYLAND, MA 01760
Inactive Year: 2008
Land Disposal Closure Status: Incomplete
Land Disposal Only, Category Waste Disposed: MSW
Landfills Liner: Lined
Municipality That The Operation Is Located In: WAYLAND
Alpha-Numeric Identification Code: SL0315.004
Numeric-Only Portion Of The Identification Code: 0315.004
Region: Northeast (Wilmington)
Org That Pays Any Annual Compliance Fee And/Or Permittee:TOWN OF WAYLAND
Responsible Party Organization Type: Municipal
Responsible Party Mailing Street Address Line 1: 41 COCHITUATE RD
Responsible Party Mailing Street Address Line 2: Not reported
Responsible Party Mailing City, State, Zip: WAYLAND, MA 01778
Responsible Party Telephone Inc Extension: Not reported
Maximum Permitted Tons Per Day: 99

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

Current Operational Status:	Inactive
Facility Phone:	(508)358-7910
Annual Tons for 1995:	Not reported
Annual Tons for 1996:	Not reported
Annual Tons for 1997:	Not reported
Annual Tons for 1998:	Not reported
Annual Tons for 1999:	Not reported
Annual Tons for 2000:	Not reported
Annual Tons for 2001:	Not reported
Annual Tons for 2002:	Not reported
Annual Tons for 2003:	Not reported
Annual Tons for 2004:	Not reported
Annual Tons for 2005:	Not reported
Annual Tons for 2006:	Not reported
Annual Tons for 2007:	Not reported
Annual Tons for 2008:	2323
Annual Tons for 2009:	2696
Annual Tons for 2010:	Not reported
Annual Tons for 2011:	Not reported
Annual Tons for 2012:	Not reported
Annual Tons for 2013:	Not reported
Annual Tons for 2014:	Not reported
Annual Tons for 2015:	Not reported
Reg Obj Acct ID Num For Each Solid Waste Operation:	463945
Days of Operation:	156
Note On The Physical Location Of The Site:	Not reported
Acres:	Not reported
Active Year:	2009
Classification Group:	Handling/Transfer
Current Or Most Recent Closed Classification:	SMTRAN
Description Of The Last Classification:	Small Transfer Station
Close Year:	Not reported
Name Of The Organization:	WAYLAND DPW
Contacts Organization Type:	Municipal
Contact Persons Name And Title:	GEORGE W RUSSELL, SUPERINTENDENT
Contact Phone Including Extension:	(508)358-7910
Contact Mailing Street Address:	484 BOSTON POST RD
Contacts Mailing City, State, Zip:	WAYLAND, MA 01778
Inactive Year:	Not reported
Land Disposal Closure Status:	n/a
Land Disposal Only, Category Waste Disposed:	n/a
Landfills Liner:	n/a
Municipality That The Operation Is Located In:	WAYLAND
Alpha-Numeric Identification Code:	Not reported
Numeric-Only Portion Of The Identification Code:	Not reported
Region:	Northeast (Wilmington)
Org That Pays Any Annual Compliance Fee And/Or Permittee:	TOWN OF WAYLAND
Responsible Party Organization Type:	Municipal
Responsible Party Mailing Street Address Line 1:	41 COCHITUATE RD
Responsible Party Mailing Street Address Line 2:	Not reported
Responsible Party Mailing City, State, Zip:	WAYLAND, MA 01778
Responsible Party Telephone Inc Extension:	Not reported
Maximum Permitted Tons Per Day:	Not reported
Current Operational Status:	Active

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

LF PROFILES:

Site Type Code:	MSW
Site Type Desc:	Municipal Solid Waste
Status:	Inactive
Owner Type:	Municipal
Stat Active Yr:	0:00
Stat Inactive Yr:	2008
Stat Close Yr:	Not reported
Lined?:	Lined
Cap Status:	Incomplete
Cap Cert Date:	Not reported
Post Closure Permit:	Not reported
Post Closure Use:	Not reported
LF Gas Energy:	Not reported
Acres:	11.79
Acres Doc:	CAP
Acres Doc Desc:	Limits of landfill cap
Electrical Provider:	NSTAR
Dist To Trans Miles:	6.26
Wind Speed 30m:	4.6319
Wind Speed 50m:	5.1282
Wind Speed 100m:	6.0025
Wind Speed 70m:	5.5113
Mass DEP FMF DB Id:	39853

Release:

Release Tracking Number/Current Status:	3-0024698 / RAO
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	03/18/2005
Category:	TWO HR
Status Date:	05/17/2005
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/18/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/18/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	3/18/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/29/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:
Chemical: WASTE OIL
Quantity: 10 gallons
Chemical: MOTOR OIL
Quantity: 5 gallons
Location Type: LANDFILL
Location Type: OPENSPACE
Source: DRUMS

Release Tracking Number/Current Status: 3-0027741 / RAO
Primary ID: Not reported
Official City: WAYLAND
Notification: 06/03/2008
Category: TWO HR
Status Date: 07/29/2008
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 6/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 7/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 9/5/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: DIESEL FUEL
Quantity: 15 gallons
Chemical: DIESEL
Quantity: 20 gallons
Location Type: MUNICIPAL
Source: VEHICLE

Release Tracking Number/Current Status: 3-0034474 / TIERI
Primary ID: Not reported
Official City: WAYLAND
Notification: 08/14/2017
Category: TWO HR
Status Date: 08/14/2018
Phase: PHASE II
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/12/2017
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	10/12/2017
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	10/12/2017
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	10/12/2017
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/11/2017
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	12/12/2017
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/14/2018
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/11/2018
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	6/12/2018
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	6/12/2018
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/14/2017
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

Action Date: 8/14/2017
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TIERI
Action Date: 8/14/2018
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/14/2018
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/14/2018
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/21/2018
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/21/2017
Response Action Outcome: Not reported

Chemicals:
Chemical: ASBESTOS
Quantity: 1 pounds
Location Type: INDUSTRIAL
Location Type: MUNICIPAL
Source: DEMOLITION
Source: WASTE

ASBESTOS:
Notification: Not reported
DEP Region: Not reported
Notifiers Name: Not reported
Start Date: 06/26/2002
End Date: 06/28/2002
Date Entered: Not reported
Entry Date: 06/26/2002
Quantity Materical Removed SF: 1.00
Quantity Material Removed LF: 1.00
Project Description: DECONTAMINTION
AR Tracking ID: 4581
Super Lic Number: AS040170
Monitor Lic Number: Not reported
Lab Lic Number: Not reported
Year: 2002
Sticker Number: 755074
Form Type: ANF-001
Fee Status: EXEMPT
Facility Phone: (508) 358-7910

WAYLAND SAND HILL TRANSFER STATION (Continued) **S100255721**

Sub Town:	Not reported
Worksite:	EXTERIOR-30 YD ROLL OFF CONTAINER
Occupied:	0
Contractor:	AC000412
Contract Type:	Not reported
Hours:	8-5
Project Type:	DECONTAMINATION
Abatement Process:	FULL CONTAINMENT
Location:	OUTDOORS
Decon Process:	3 CHAMBER
Disposal Methods:	2 PLY POLY BAG WITH LABEL
Facility Usage:	LANDFILL/RECYCLING FACILITY
Waiver Given:	-1
DEP Waiver Number:	020-6947
DLWD Waiver Number:	NWA 00 2621
Small Owner Occ:	0
Owner Name:	TOWN OF WAYLAND
Owner Address:	484 BOSTON POST ROAD
Owner City:	WAYLAND
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	PHOENIX CO
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	ENVIRONMENTAL RESPONSE SERVICES
Transporter Address:	9 BLUEBERRY LANE
Transporter City:	NORTH DARTMOUTH
Transporter State:	MA
Final Site:	39
Certified Name:	JIM POLLOCK
Cert Sign Date:	06/20/2002
Certified Company:	Not reported
Certified Phone:	(508) 998-6229
Entered_by:	Not reported

HW GEN:

EPA Id:	MAR000015388
RCRA Generator Status:	VSQG
State Generator Status:	Not reported

A4 **NEAR LANDFILL** **MA RGA HWS** **S115032677**
Target **484 BOSTON POST RD** **N/A**
Property **WAYLAND, MA**

Site 4 of 6 in cluster A

Actual: **140 ft.**

RGA HWS:

2012	NEAR LANDFILL	484 BOSTON POST RD
2011	NEAR LANDFILL	484 BOSTON POST RD
2010	NEAR LANDFILL	484 BOSTON POST RD
2009	NEAR LANDFILL	484 BOSTON POST RD
2008	NEAR LANDFILL	484 BOSTON POST RD

A5
Target Property
Actual: 140 ft.

WAYLAND LF
484 BOSTON POST ROAD
WAYLAND, MA 01778

FINDS **1017371928**
N/A

Site 5 of 6 in cluster A

FINDS:

Registry ID: 110060462244

Environmental Interest/Information System
LANDFILL GAS (LFG) RECOVERY

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A6
Target Property
Actual: 140 ft.

WAYLAND SAND HILL LANDFILL
484 BOSTON POST RD
WAYLAND, MA

MA RGA HWS **S115054204**
N/A

Site 6 of 6 in cluster A

RGA HWS:

2012	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2011	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2010	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2009	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2008	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2007	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2006	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD
2005	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD

7
ESE
1/8-1/4
0.147 mi.
777 ft.

Relative: Lower
Actual: 117 ft.

SUDBURY DUMP
DAKIN RD
SUDBURY, MA 01776

MA SWF/LF **S101395301**
N/A

LF:

Facility Phone:	Not reported
Annual Tons for 1995:	Not reported
Annual Tons for 1996:	Not reported
Annual Tons for 1997:	Not reported
Annual Tons for 1998:	Not reported
Annual Tons for 1999:	Not reported
Annual Tons for 2000:	Not reported
Annual Tons for 2001:	Not reported
Annual Tons for 2002:	Not reported
Annual Tons for 2003:	Not reported
Annual Tons for 2004:	Not reported
Annual Tons for 2005:	Not reported
Annual Tons for 2006:	Not reported
Annual Tons for 2007:	Not reported
Annual Tons for 2008:	Not reported
Annual Tons for 2009:	Not reported
Annual Tons for 2010:	Not reported
Annual Tons for 2011:	Not reported

SUDBURY DUMP (Continued) **S101395301**

Annual Tons for 2012:	Not reported
Annual Tons for 2013:	Not reported
Annual Tons for 2014:	Not reported
Annual Tons for 2015:	Not reported
Reg Obj Acct ID Num For Each Solid Waste Operation:	172981
Days of Operation:	Not reported
Note On The Physical Location Of The Site:	Not reported
Acres:	Not reported
Active Year:	Not reported
Classification Group:	Land Disposal
Current Or Most Recent Closed Classification:	CSU-LF
Description Of The Last Classification:	Landfill Closure Status Unknown
Close Year:	Not reported
Name Of The Organization:	TOWN OF SUDBURY
Contacts Organization Type:	Municipal
Contact Persons Name And Title:	Not reported
Contact Phone Including Extension:	(978)443-8891
Contact Mailing Street Address:	288 OLD SUDBURY RD
Contacts Mailing City, State, Zip:	SUDBURY, MA 01776
Inactive Year:	1970
Land Disposal Closure Status:	Incomplete
Land Disposal Only, Category Waste Disposed:	MSW
Landfills Liner:	Not Lined
Municipality That The Operation Is Located In:	SUDBURY
Alpha-Numeric Identification Code:	SL0288.002
Numeric-Only Portion Of The Identification Code:	0288.002
Region:	Northeast (Wilmington)
Org That Pays Any Annual Compliance Fee And/Or Permittee:	Not reported
Responsible Party Organization Type:	Not reported
Responsible Party Mailing Street Address Line 1:	Not reported
Responsible Party Mailing Street Address Line 2:	Not reported
Responsible Party Mailing City, State, Zip:	Not reported
Responsible Party Telephone Inc Extension:	Not reported
Maximum Permitted Tons Per Day:	Not reported
Current Operational Status:	Inactive

8
West
1/8-1/4
0.172 mi.
910 ft.

WATERS MANUFACTURING **MA LAST** **S103043780**
522 BOSTON POST RD LONGFELLOW **MA RELEASE** **N/A**
WAYLAND, MA 01778

Relative:
Higher

Actual:
159 ft.

LAST:

Release Tracking Number/Current Status:	3-0000059 / RAO
Source Type:	AST
Release Town:	WAYLAND
Notification Date:	05/28/1986
Category:	NONE
Associated ID:	Not reported
Status Date:	06/29/1995
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Chemicals:

Chemical:	VOCS
Quantity:	Not reported

WATERS MANUFACTURING (Continued) **S103043780**

Location Type: MANUFACT
Source: AST

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/15/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 5/28/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/28/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 6/28/2017
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/29/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/19/2017
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 3-0000059 / RAO
Primary ID: Not reported
Official City: WAYLAND
Notification: 05/28/1986
Category: NONE
Status Date: 06/29/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)

WATERS MANUFACTURING (Continued) **S103043780**

Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/15/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 5/28/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/28/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 6/28/2017
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/29/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/19/2017
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: VOCS
Quantity: Not reported
Location Type: MANUFACT
Source: AST

9
West
1/4-1/2
0.287 mi.
1515 ft.

WATERS MANUFACTURING CO **SEMS 1000217486**
BOSTON POST ROAD **MAD982547424**
WAYLAND, MA 01778

Relative: Higher
Actual: 140 ft.

SEMS:
Site ID: 0101528
EPA ID: MAD982547424
Cong District: 04
FIPS Code: 25017
Latitude: +42.36
Longitude: -071.38
FF: N
NPL: Not on the NPL
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup

WATERS MANUFACTURING CO (Continued) **1000217486**

SEMS Detail:

Region:	01
Site ID:	0101528
EPA ID:	MAD982547424
Site Name:	WATERS MANUFACTURING CO
NPL:	N
FF:	N
OU:	00
Action Code:	VA
Action Name:	OTHR CLEANUP
SEQ:	1
Start Date:	2000-07-01 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght

Region:	01
Site ID:	0101528
EPA ID:	MAD982547424
Site Name:	WATERS MANUFACTURING CO
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1988-03-30 05:00:00
Finish Date:	3/30/1988 5:00:00 AM
Qual:	Not reported
Current Action Lead:	St Perf

Region:	01
Site ID:	0101528
EPA ID:	MAD982547424
Site Name:	WATERS MANUFACTURING CO
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	12/30/1988 5:00:00 AM
Qual:	L
Current Action Lead:	St Perf

Region:	01
Site ID:	0101528
EPA ID:	MAD982547424
Site Name:	WATERS MANUFACTURING CO
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported

WATERS MANUFACTURING CO (Continued) **1000217486**

Finish Date: 8/1/1991 4:00:00 AM
Qual: L
Current Action Lead: St Perf

10
East
1/4-1/2
0.316 mi.
1670 ft.

MHD STAGING AREA - SUDBURY RIV BRIDGE **MA SHWS** **S109489516**
BOSTON POST RD **MA RELEASE** **N/A**
WAYLAND, MA 01778

Relative:
Lower

Actual:
115 ft.

SHWS:
Facility ID: 3-0027875
Source Type: UNKNOWN
Release Town: WAYLAND
Notification Date: 07/30/2008
Category: TWO HR
Associated ID: Not reported
Current Status: RAO
Status Date: 10/03/2008
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Oil

Facility ID: 3-0027875
Source Type: DRUMS
Release Town: WAYLAND
Notification Date: 07/30/2008
Category: TWO HR
Associated ID: Not reported
Current Status: RAO
Status Date: 10/03/2008
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Oil

Release:
Release Tracking Number/Current Status: 3-0027875 / RAO
Primary ID: Not reported
Official City: WAYLAND
Notification: 07/30/2008
Category: TWO HR
Status Date: 10/03/2008
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MHD STAGING AREA - SUDBURY RIV BRIDGE (Continued) **S109489516**

Action Type: RLFA
Action Status: FLDD1A
Action Date: 7/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 7/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/12/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 8/12/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/13/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/13/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/14/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 8/15/2008

MHD STAGING AREA - SUDBURY RIV BRIDGE (Continued) **S109489516**

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

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 8/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/22/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/26/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 8/26/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/5/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/5/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: PETROLEUM BASED OIL
Quantity: 10 gallons
Chemical: PETROLEUM/COAL TAR
Quantity: 55 gallons
Chemical: UNKNOWN OHM
Quantity: 55 gallons
Location Type: OPENSPACE
Location Type: RIGHTOFWAY
Location Type: STATE
Source: DRUMS
Source: UNKNOWN

11
West
1/4-1/2
0.341 mi.
1800 ft.

PROPERTY
533 BOSTON POST RD
WAYLAND, MA 01778

MA SHWS **S101034008**
MA RELEASE **N/A**
MA SPILLS
MA ASBESTOS
MA HW GEN

Relative:
Lower

Actual:
133 ft.

SHWS:

Facility ID:	3-0003351
Source Type:	UNCONTAIN
Release Town:	WAYLAND
Notification Date:	08/27/1990
Category:	NONE
Associated ID:	Not reported
Current Status:	RAO
Status Date:	08/02/1996
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Not reported

Release:

Release Tracking Number/Current Status:	3-0003351 / RAO
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	08/27/1990
Category:	NONE
Status Date:	08/02/1996
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	TREGS
Action Status:	RAOEQ
Action Date:	8/2/1996
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/27/1990
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	8/27/1990
Response Action Outcome:	Not reported

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported
Location Type:	INDUSTRIAL
Location Type:	FORMER
Location Type:	MANUFACT
Source:	UNCONTAIN

MA Spills:

PROPERTY (Continued) **S101034008**

Facility ID:	3-3351	Spill ID:	N90-1182
Staff Lead:	BRADLEY, R	Date Entered:	19900801
Last Entered:	19931227	First Response:	19900720
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19900720	Report Time:	09:20AM
Case Closed:	YES	Mat Type:	HAZARDOUS
Virgin Waste:	------	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	SOLVENTS	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	UNKNOWN
Source:	----------	Other Source:	Not reported
Incident:	----------	Other Incdnt:	Not reported
Cleanup Type:	SSC	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	JOHN MULLEN, ATTORNEY		
Notif Tel:	Not reported		
Days/Close:	0		

ASBESTOS:

Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	03/28/2016
End Date:	03/29/2016
Date Entered:	Not reported
Entry Date:	03/11/2016
Quantity Materical Removed SF:	700.00
Quantity Material Removed LF:	.00
Project Description:	OTHER TILE & MASTIC
AR Tracking ID:	233817
Super Lic Number:	AS034502
Monitor Lic Number:	AA000124
Lab Lic Number:	AA000124
Year:	2016
Sticker Number:	100238915
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	0000000000
Sub Town:	Not reported
Worksite:	DEALERSHIP OFFICES
Occupied:	-1
Contractor:	AC000873
Contract Type:	WRITTEN
Hours:	7-3:30
Project Type:	Renv
Abatement Process:	Fcontain
Location:	INDOORS
Decon Process:	PROVIDE AN ADEQUATE DECONTAMINATION SYSTEM.
Disposal Methods:	DOUBLE 6 MIL POLY
Facility Usage:	AUTO DEALERSHIP
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	0

PROPERTY (Continued) **S101034008**

Owner Name:	HERB CHAMBERS COMPANIES
Owner Address:	259 MCGRATH HIGHWAY
Owner City:	SOMERVILLE
Owner State:	MA
On Site Manager Name:	PETER OCALLAGHAN
On Site Manager Phone:	6176668333
Ins Comp:	ACE AMERICAN INS CO
Policy Number:	BINDER ID 120189
EXP Date:	2/26/2017
Facility Size:	25000
Transporter Name:	ALL STATE ABATEMENT PROFESSIONALS
Transporter Address:	4 WILDER DRIVE, STE 12
Transporter City:	PLAISTOW
Transporter State:	NH
Final Site:	Not reported
Certified Name:	JUDITH BEREZANSKY
Cert Sign Date:	03/11/2016
Certified Company:	ASAP, INC.
Certified Phone:	6033780600
Entered_by:	ASAPINC
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	03/28/2016
End Date:	03/29/2016
Date Entered:	Not reported
Entry Date:	03/11/2016
Quantity Materical Removed SF:	700.00
Quantity Material Removed LF:	.00
Project Description:	OTHER TILE & MASTIC
AR Tracking ID:	233818
Super Lic Number:	AS034502
Monitor Lic Number:	AA000124
Lab Lic Number:	AA000124
Year:	2016
Sticker Number:	100238913
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	0000000000
Sub Town:	Not reported
Worksite:	DEALERSHIP OFFICES
Occupied:	-1
Contractor:	AC000331
Contract Type:	WRITTEN
Hours:	7-3:30
Project Type:	Renv
Abatement Process:	Fcontain
Location:	INDOORS
Decon Process:	PROVIDE AN ADEQUATE DECONTAMINATION SYSTEM.
Disposal Methods:	DOUBLE 6 MIL POLY.
Facility Usage:	DEALERSHIP
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	HERB CHAMBERS COMPANIES

PROPERTY (Continued) **S101034008**

Owner Address:	259 MCGRATH HIGHWAY
Owner City:	SOMERVILLE
Owner State:	MA
On Site Manager Name:	PETER OCALLAGHAN
On Site Manager Phone:	6176668333
Ins Comp:	FEDERAL INSURANCE COMPANY
Policy Number:	0044727722
EXP Date:	3/22/2016
Facility Size:	25000
Transporter Name:	ALL STATE ABATEMENT PROFESSIONALS, INC.
Transporter Address:	4 WILDER DRIVE, STE 12
Transporter City:	PLAISTOW
Transporter State:	NH
Final Site:	Not reported
Certified Name:	JUDITH BEREZANSKY
Cert Sign Date:	03/11/2016
Certified Company:	ASAP, INC.
Certified Phone:	6033780600
Entered_by:	ASAPINC

HW GEN:

EPA Id:	MAR000522672
RCRA Generator Status:	VSQG
State Generator Status:	SQG-MA

12
WNW
1/4-1/2
0.373 mi.
1972 ft.

NO LOCATION AID
6 OLD COUNTY RD
SUDBURY, MA 01776

MA SHWS **S107678272**
MA RELEASE **N/A**

Relative: Higher

Actual: 144 ft.

SHWS:

Facility ID:	3-0025622
Source Type:	Not reported
Release Town:	SUDBURY
Notification Date:	01/27/2006
Category:	120 DY
Associated ID:	Not reported
Current Status:	RAO
Status Date:	01/29/2007
Phase:	Not reported
Response Action Outcome:	A2
Oil Or Haz Material:	Oil

Release:

Release Tracking Number/Current Status:	3-0025622 / RAO
Primary ID:	Not reported
Official City:	SUDBURY
Notification:	01/27/2006
Category:	120 DY
Status Date:	01/29/2007
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

NO LOCATION AID (Continued) **S107678272**

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/27/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	1/27/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/27/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	1/29/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/29/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	1/30/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	12/11/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/18/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	2/1/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S107678272**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/10/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 5/24/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 4590 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 2640 milligrams per kilogram
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 1020 milligrams per kilogram

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13 **TRANSFER STATION** **MA MERCURY** **S113670358**
East **448 BOSTON POST ROAD** **N/A**
1/4-1/2 **WAYLAND, MA**
0.376 mi.
1987 ft.

Relative: **Lower**
Actual: **118 ft.**

MERCURY:
Hours1: Tues 8am - 4pm
Hours2: Thurs and Sat 7am - 4pm
Website: http://www.wayland.ma.us/Pages/WaylandMA_DPW/transfer/Transfer20Station20Disposal20List20V3.pdf
Work Phone: (508) 358-7910
Button Batteries B: Not reported
Button Batteries R: Not reported
Fluorescent Lamps (Incl# Cfls) B: Not reported
Fluorescent Lamps (Incl# Cfls) R: Yes
Thermostats B: Not reported
Thermostats R: Not reported
Electronics-Inc Flat Panel TV,Laptops B: Not reported
Electronics-Inc Flat Panel TV,Laptops R: Fee may apply
Other Hg Products-Thermometers Blood Press Cuffs B: Not reported
Other Hg Products-Thermometers Blood Press Cuffs R: Not reported
Comments: Not reported

B14 **MA HIGHWAY DEPT** **MA SHWS** **S104000420**
West **BOSTON POST RD RTE 20** **MA LUST** **N/A**
1/4-1/2 **SUDBURY, MA 01776** **MA RELEASE**
0.412 mi.
2177 ft. **Site 1 of 4 in cluster B**

Relative: **Lower**
Actual: **135 ft.**

SHWS:
Facility ID: 3-0018306
Source Type: Not reported
Release Town: SUDBURY
Notification Date: 05/05/1999
Category: 120 DY

MA HIGHWAY DEPT (Continued) **S104000420**

Associated ID: Not reported
Current Status: RAO
Status Date: 05/05/2000
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Hazardous Material

LUST:

Facility:
Release Tracking Number/Current Status: 3-0014245 / RAO
Status Date: 11/18/1996
Source Type: UST
Release Town: SUDBURY
Notification Date: 09/18/1996
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Location Type: STATE
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE
Quantity: 650 parts per million

Actions:
Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 11/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MA HIGHWAY DEPT (Continued) **S104000420**

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0014245 / RAO
Primary ID: Not reported
Official City: SUDBURY
Notification: 09/18/1996
Category: 72 HR
Status Date: 11/18/1996
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 11/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MA HIGHWAY DEPT (Continued) **S104000420**

reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: GASOLINE
Quantity: 650 parts per million
Location Type: STATE
Source: UST

Release Tracking Number/Current Status: 3-0018306 / RAO
Primary ID: Not reported
Official City: SUDBURY
Notification: 05/05/1999
Category: 120 DY
Status Date: 05/05/2000
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/5/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 2/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/5/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MA HIGHWAY DEPT (Continued) **S104000420**

reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/5/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 5/5/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/5/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/13/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: BENZO[B]FLUORANTHENE
Quantity: 1.8 parts per million

B15 **DPW TRANSFER STATION** **MA SHWS** **S103383738**
West **20 BOSTON POST RD** **MA SWF/LF** **N/A**
1/4-1/2 **SUDBURY, MA 01776** **MA LAST**
0.422 mi. **MA RELEASE**
2229 ft. **Site 2 of 4 in cluster B** **MA HW GEN**

Relative: **Lower**
Actual: **134 ft.**

SHWS:
Facility ID: 3-0029909
Source Type: LANDFILL
Release Town: SUDBURY
Notification Date: 03/31/2011
Category: TWO HR
Associated ID: Not reported
Current Status: ADQREG
Status Date: 10/15/2012
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0029909
Source Type: GAS
Release Town: SUDBURY
Notification Date: 03/31/2011
Category: TWO HR
Associated ID: Not reported
Current Status: ADQREG
Status Date: 10/15/2012

DPW TRANSFER STATION (Continued) **S103383738**

Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0033503
Source Type: LANDFILL
Release Town: SUDBURY
Notification Date: 04/05/2016
Category: TWO HR
Associated ID: Not reported
Current Status: ADQREG
Status Date: 08/03/2016
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0033503
Source Type: METHANE
Release Town: SUDBURY
Notification Date: 04/05/2016
Category: TWO HR
Associated ID: Not reported
Current Status: ADQREG
Status Date: 08/03/2016
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0023624
Source Type: UNKNOWN
Release Town: SUDBURY
Notification Date: 02/20/2004
Category: TWO HR
Associated ID: Not reported
Current Status: ADQREG
Status Date: 12/12/2016
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Oil and Hazardous Material

Facility ID: 3-0034148
Source Type: UNKNOWN
Release Town: SUDBURY
Notification Date: 03/29/2017
Category: TWO HR
Associated ID: Not reported
Current Status: PSNC
Status Date: 08/07/2017
Phase: Not reported
Response Action Outcome: PN
Oil Or Haz Material: Oil and Hazardous Material

LF:
Facility Phone: (978)443-8891
Annual Tons for 1995: 7567
Annual Tons for 1996: 1850
Annual Tons for 1997: Not reported

DPW TRANSFER STATION (Continued) **S103383738**

Annual Tons for 1998:	Not reported
Annual Tons for 1999:	Not reported
Annual Tons for 2000:	Not reported
Annual Tons for 2001:	Not reported
Annual Tons for 2002:	Not reported
Annual Tons for 2003:	Not reported
Annual Tons for 2004:	Not reported
Annual Tons for 2005:	Not reported
Annual Tons for 2006:	Not reported
Annual Tons for 2007:	Not reported
Annual Tons for 2008:	Not reported
Annual Tons for 2009:	Not reported
Annual Tons for 2010:	Not reported
Annual Tons for 2011:	Not reported
Annual Tons for 2012:	Not reported
Annual Tons for 2013:	Not reported
Annual Tons for 2014:	Not reported
Annual Tons for 2015:	Not reported
Reg Obj Acct ID Num For Each Solid Waste Operation:	224306
Days of Operation:	260
Note On The Physical Location Of The Site:	Not reported
Acres:	22
Active Year:	1970
Classification Group:	Land Disposal
Current Or Most Recent Closed Classification:	CLF
Description Of The Last Classification:	Closed Landfill with Env Monitoring Required
Close Year:	2005
Name Of The Organization:	TOWN OF SUDBURY
Contacts Organization Type:	Municipal
Contact Persons Name And Title:	STEVEN LEDOUX, TOWN MRG
Contact Phone Including Extension:	(978)443-8891
Contact Mailing Street Address:	288 SUDBURY RD
Contacts Mailing City, State, Zip:	SUDBURY, MA 01776
Inactive Year:	1996
Land Disposal Closure Status:	Capped
Land Disposal Only, Category Waste Disposed:	MSW
Landfills Liner:	Lined
Municipality That The Operation Is Located In:	SUDBURY
Alpha-Numeric Identification Code:	SL0288.001
Numeric-Only Portion Of The Identification Code:	0288.001
Region:	Northeast (Wilmington)
Org That Pays Any Annual Compliance Fee And/Or Permittee:	TOWN OF SUDBURY
Responsible Party Organization Type:	Municipal
Responsible Party Mailing Street Address Line 1:	278 OLD SUDBURY RD
Responsible Party Mailing Street Address Line 2:	Not reported
Responsible Party Mailing City, State, Zip:	SUDBURY, MA 01776
Responsible Party Telephone Inc Extension:	Not reported
Maximum Permitted Tons Per Day:	99
Current Operational Status:	Closed
Facility Phone:	(978)443-2209 1390
Annual Tons for 1995:	Not reported
Annual Tons for 1996:	Not reported
Annual Tons for 1997:	Not reported
Annual Tons for 1998:	2977
Annual Tons for 1999:	2817
Annual Tons for 2000:	2851

DPW TRANSFER STATION (Continued) **S103383738**

Annual Tons for 2001:	3270
Annual Tons for 2002:	2114
Annual Tons for 2003:	2364
Annual Tons for 2004:	2394
Annual Tons for 2005:	4128
Annual Tons for 2006:	2430
Annual Tons for 2007:	2307
Annual Tons for 2008:	2419
Annual Tons for 2009:	2672
Annual Tons for 2010:	Not reported
Annual Tons for 2011:	Not reported
Annual Tons for 2012:	Not reported
Annual Tons for 2013:	Not reported
Annual Tons for 2014:	Not reported
Annual Tons for 2015:	Not reported
Reg Obj Acct ID Num For Each Solid Waste Operation:	318294
Days of Operation:	156
Note On The Physical Location Of The Site:	Not reported
Acres:	Not reported
Active Year:	1996
Classification Group:	Handling/Transfer
Current Or Most Recent Closed Classification:	SMTRAN
Description Of The Last Classification:	Small Transfer Station
Close Year:	Not reported
Name Of The Organization:	SUDBURY DPW
Contacts Organization Type:	Municipal
Contact Persons Name And Title:	WILLIAM PLACE, DPW DIR
Contact Phone Including Extension:	(978)443-2209 1390
Contact Mailing Street Address:	275 OLD LANCASTER RD
Contacts Mailing City, State, Zip:	SUDBURY, MA 01776
Inactive Year:	Not reported
Land Disposal Closure Status:	n/a
Land Disposal Only, Category Waste Disposed:	n/a
Landfills Liner:	n/a
Municipality That The Operation Is Located In:	SUDBURY
Alpha-Numeric Identification Code:	TR0288.009
Numeric-Only Portion Of The Identification Code:	0288.009
Region:	Northeast (Wilmington)
Org That Pays Any Annual Compliance Fee And/Or Permittee:	TOWN OF SUDBURY
Responsible Party Organization Type:	Municipal
Responsible Party Mailing Street Address Line 1:	278 OLD SUDBURY RD
Responsible Party Mailing Street Address Line 2:	Not reported
Responsible Party Mailing City, State, Zip:	SUDBURY, MA 01776
Responsible Party Telephone Inc Extension:	Not reported
Maximum Permitted Tons Per Day:	Not reported
Current Operational Status:	Active

LF PROFILES:

Site Type Code:	MSW
Site Type Desc:	Municipal Solid Waste
Status:	Closed
Owner Type:	Municipal
Stat Active Yr:	0:00
Stat Inactive Yr:	1996
Stat Close Yr:	05/10/2005
Lined?:	Lined
Cap Status:	Capped

DPW TRANSFER STATION (Continued) **S103383738**

Cap Cert Date:	Not reported
Post Closure Permit:	Not reported
Post Closure Use:	Not reported
LF Gas Energy:	Not reported
Acres:	21.19
Acres Doc:	PB
Acres Doc Desc:	Parcel Boundary
Electrical Provider:	NSTAR
Dist To Trans Miles:	6.25
Wind Speed 30m:	4.6424
Wind Speed 50m:	5.1308
Wind Speed 100m:	6.0122
Wind Speed 70m:	5.5185
Mass DEP FMF DB Id:	224402

LAST:

Release Tracking Number/Current Status:	3-0017083 / RAO
Source Type:	AST
Release Town:	SUDBURY
Notification Date:	07/24/1998
Category:	TWO HR
Associated ID:	Not reported
Status Date:	04/30/1999
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Chemicals:

Chemical:	DIESEL FUEL
Quantity:	100 gallons
Location Type:	MUNICIPAL
Source:	AST

Actions:

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/20/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	4/30/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	5/3/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	7/24/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

DPW TRANSFER STATION (Continued) **S103383738**

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0017083 / RAO
Primary ID: Not reported
Official City: SUDBURY
Notification: 07/24/1998
Category: TWO HR
Status Date: 04/30/1999
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 5/3/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

DPW TRANSFER STATION (Continued) **S103383738**

reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/24/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: DIESEL FUEL
Quantity: 100 gallons
Location Type: MUNICIPAL
Source: AST

Release Tracking Number/Current Status: 3-0023624 / ADQREG
Primary ID: Not reported
Official City: SUDBURY
Notification: 02/20/2004
Category: TWO HR
Status Date: 12/12/2016
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 1/10/2005
Response Action Outcome: Not reported

DPW TRANSFER STATION (Continued) **S103383738**

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 1/10/2005
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 1/10/2005
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/13/2005
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 1/13/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/13/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/23/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/4/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/6/2008
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 10/6/2008
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 12/12/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/12/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit

DPW TRANSFER STATION (Continued) **S103383738**

Action Date: 12/13/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 2/16/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 2/2/2007
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/20/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 2/20/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/20/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/24/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRAN
Action Date: 3/15/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/22/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/29/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/5/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 3/8/2004
Response Action Outcome: Not reported

DPW TRANSFER STATION (Continued) **S103383738**

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/8/2007
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/9/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/5/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 4/6/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/6/2005
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/6/2005
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 5/26/2005
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Submittal Retracted
Action Date: 5/26/2005
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 5/26/2005
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/28/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/6/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF

DPW TRANSFER STATION (Continued) **S103383738**

Action Date: 5/7/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 6/22/2016
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 6/25/2007
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 6/30/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/30/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 7/30/2010
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 7/30/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/7/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 7/7/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 7/7/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/7/2004
Response Action Outcome: Not reported

Chemicals:
Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)
Quantity: Not reported
Chemical: METHANE

DPW TRANSFER STATION (Continued) **S103383738**

Quantity:	Not reported
Location Type:	ROADWAY
Location Type:	MUNICIPAL
Source:	UNKNOWN
Release Tracking Number/Current Status:	3-0029909 / ADQREG
Primary ID:	Not reported
Official City:	SUDBURY
Notification:	03/31/2011
Category:	TWO HR
Status Date:	10/15/2012
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/15/2012
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Adequately Regulated
Action Date:	10/15/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/28/2011
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Adequately Regulated
Action Date:	11/28/2011
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/30/2011
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	3/26/2012
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/31/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/31/2011
Response Action Outcome:	Not reported

DPW TRANSFER STATION (Continued) **S103383738**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/15/2011
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/29/2011
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/29/2011
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 4/29/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 4/29/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 4/29/2011
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/3/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 5/13/2011
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/13/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 5/25/2011
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/6/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit

DPW TRANSFER STATION (Continued) **S103383738**

Action Date: 8/1/2013
Response Action Outcome: Not reported

Chemicals:
Chemical: METHANE
Quantity: 17 %LEL
Location Type: MUNICIPAL
Source: GAS
Source: LANDFILL

Release Tracking Number/Current Status: 3-0033503 / ADQREG
Primary ID: Not reported
Official City: SUDBURY
Notification: 04/05/2016
Category: TWO HR
Status Date: 08/03/2016
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/5/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 4/5/2016
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/2/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 8/3/2016
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Adequately Regulated
Action Date: 8/3/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 8/8/2016
Response Action Outcome: Not reported

Chemicals:
Chemical: METHANE
Quantity: 22 %LEL

DPW TRANSFER STATION (Continued) **S103383738**

Location Type:	MUNICIPAL
Source:	METHANE
Source:	LANDFILL
Release Tracking Number/Current Status:	3-0034148 / PSNC
Primary ID:	Not reported
Official City:	SUDBURY
Notification:	03/29/2017
Category:	TWO HR
Status Date:	08/07/2017
Phase:	Not reported
Response Action Outcome:	PN - PN
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/29/2017
Response Action Outcome:	PN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/29/2017
Response Action Outcome:	PN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	5/24/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	7/11/2017
Response Action Outcome:	PN
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/24/2017
Response Action Outcome:	PN
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/24/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Imminent Hazard Evaluation Received
Action Date:	7/6/2017
Response Action Outcome:	PN
Action Type:	RAO Not Required
Action Status:	Adequately Regulated
Action Date:	7/6/2017
Response Action Outcome:	PN

DPW TRANSFER STATION (Continued) **S103383738**

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/6/2017
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 8/2/2017
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 8/7/2017
Response Action Outcome: PN

Chemicals:
Chemical: GASOLINE
Quantity: 508 %LEL
Chemical: METHANE
Quantity: 508 %LEL
Location Type: MUNICIPAL
Source: UNKNOWN

HW GEN:
EPA Id: MAR000505016
RCRA Generator Status: SQG
State Generator Status: Not reported

EPA Id: MAD982545527
RCRA Generator Status: SQG
State Generator Status: LQG-MA

B16 **RICHEY AND CLAPPER INC** **MA SHWS** **S110822186**
West **33 BOSTON POST RD** **MA RELEASE** **N/A**
1/4-1/2 **SUDBURY, MA 01776** **MA HW GEN**
0.433 mi.
2285 ft. **Site 3 of 4 in cluster B**

Relative:
Lower

Actual:
136 ft.

SHWS:
Facility ID: 3-0029754
Source Type: TRANSFORM
Release Town: SUDBURY
Notification Date: 01/17/2011
Category: TWO HR
Associated ID: Not reported
Current Status: RAO
Status Date: 01/20/2011
Phase: Not reported
Response Action Outcome: A1
Oil Or Haz Material: Not reported

Release:
Release Tracking Number/Current Status: 3-0029754 / RAO
Primary ID: Not reported
Official City: SUDBURY
Notification: 01/17/2011

RICHEY AND CLAPPER INC (Continued) **S110822186**

Category: TWO HR
Status Date: 01/20/2011
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type: RLFA
Action Status: FLDD1U
Action Date: 1/17/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 1/17/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/17/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/20/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 1/20/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/20/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/22/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 2/8/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

RICHEY AND CLAPPER INC (Continued) **S110822186**

Chemicals:
Chemical: MODF
Quantity: 100 gallons
Chemical: MINERAL OIL DIELECTRIC FLUID
Quantity: 95 gallons
Location Type: COMMERCIAL
Source: TRANSFORM

HW GEN:
EPA Id: MV9784431333
RCRA Generator Status: Not reported
State Generator Status: SQG-MA

B17 **NO LOCATION AID** **MA SHWS** **S101031097**
West **83 BOSTON POST RD** **MA SPILLS** **N/A**
1/4-1/2 **SUDBURY, MA 01776** **MA RELEASE**
0.453 mi.
2391 ft. **Site 4 of 4 in cluster B**

Relative: **Lower**
Actual: **139 ft.**

SHWS:
Facility ID: 3-0021843
Source Type: Not reported
Release Town: SUDBURY
Notification Date: 06/24/2002
Category: 120 DY
Associated ID: Not reported
Current Status: DPS
Status Date: 07/16/2002
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

MA Spills:

Facility ID:	0000	Spill ID:	N87-0142
Staff Lead:	BRADLEY, R	Date Entered:	Not reported
Last Entered:	Not reported	First Response:	Not reported
Spill Date:	19870206	Spill Time:	Not reported
Report Date:	Not reported	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	DIESEL FUEL	Other Material:	Not reported
Qty Reported:	5 GALS	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported
Referral:	Not reported	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		

Release:
Release Tracking Number/Current Status: 3-0021843 / DPS

NO LOCATION AID (Continued) **S101031097**

Primary ID:	Not reported
Official City:	SUDBURY
Notification:	06/24/2002
Category:	120 DY
Status Date:	07/16/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/24/2002
Response Action Outcome:	Not reported

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	6/24/2002
Response Action Outcome:	Not reported

Action Type:	Downgradient Property Status
Action Status:	Fee Received - FMCRA Use Only
Action Date:	7/15/2002
Response Action Outcome:	Not reported

Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/16/2002
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/15/2002
Response Action Outcome:	Not reported

Chemicals:

Chemical:	BENZENE
Quantity:	7.15 micrograms per liter

C18 **430 BOSTON POST ROAD** **SEMS-ARCHIVE** **1000407718**
East **430 BOSTON POST ROAD** **MA SHWS** **MAD990685554**
1/4-1/2 **WAYLAND, MA 01778** **MA LUST**
0.466 mi. **MA INST CONTROL**
2462 ft. **Site 1 of 2 in cluster C** **MA RELEASE**
RCRA NonGen / NLR
Relative: **ICIS**
Lower **US AIRS**
FINDS
Actual: **ECHO**
124 ft. **MA ENF**
MA HW GEN
NY MANIFEST
MA TIER 2
MA UIC

SEMS Archive:

Site ID:	0100949
EPA ID:	MAD990685554
Cong District:	04
FIPS Code:	25017
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Latitude:	+42.36
Longitude:	-071.36

SEMS Archive Detail:

Region:	01
Site ID:	0100949
EPA ID:	MAD990685554
Site Name:	RAYTHEON CO EQUIPMENT DIV
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	2009-11-05 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	01
Site ID:	0100949
EPA ID:	MAD990685554
Site Name:	RAYTHEON CO EQUIPMENT DIV
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1990-12-12 05:00:00
Finish Date:	1991-10-29 05:00:00
Qual:	H
Current Action Lead:	EPA Perf

Region:	01
Site ID:	0100949

430 BOSTON POST ROAD (Continued) **1000407718**

EPA ID:	MAD990685554
Site Name:	RAYTHEON CO EQUIPMENT DIV
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-11-01 05:00:00
Finish Date:	1980-11-01 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	01
Site ID:	0100949
EPA ID:	MAD990685554
Site Name:	RAYTHEON CO EQUIPMENT DIV
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1980-11-01 05:00:00
Qual:	H
Current Action Lead:	EPA Perf

Region:	01
Site ID:	0100949
EPA ID:	MAD990685554
Site Name:	RAYTHEON CO EQUIPMENT DIV
NPL:	N
FF:	N
OU:	00
Action Code:	VA
Action Name:	OTHR CLEANUP
SEQ:	1
Start Date:	2000-07-01 04:00:00
Finish Date:	2009-11-04 05:00:00
Qual:	N
Current Action Lead:	St Ovrsght

SHWS:

Facility ID:	3-0013302
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	01/02/1996
Category:	72 HR
Associated ID:	3-0013302
Current Status:	REMOPS
Status Date:	05/16/2018
Phase:	PHASE V
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil

430 BOSTON POST ROAD (Continued) **1000407718**

Facility ID:	3-0019482
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	04/26/2000
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAONR
Status Date:	11/28/2000
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Facility ID:	3-0033752
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	02/13/2017
Category:	120 DY
Associated ID:	Not reported
Current Status:	DPS
Status Date:	03/13/2017
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Facility ID:	3-0013574
Source Type:	Not reported
Release Town:	WAYLAND
Notification Date:	03/15/1996
Category:	120 DY
Associated ID:	Not reported
Current Status:	RAONR
Status Date:	11/28/2000
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Facility ID:	3-0014042
Source Type:	Not reported
Release Town:	WAYLAND
Notification Date:	07/25/1996
Category:	120 DY
Associated ID:	Not reported
Current Status:	RAONR
Status Date:	11/28/2000
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil and Hazardous Material

Facility ID:	3-0022408
Source Type:	Not reported
Release Town:	WAYLAND
Notification Date:	12/17/2002
Category:	120 DY
Associated ID:	Not reported
Current Status:	RAONR
Status Date:	06/09/2009
Phase:	PHASE V

430 BOSTON POST ROAD (Continued) **1000407718**

Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0022665
Source Type: Not reported
Release Town: WAYLAND
Notification Date: 03/12/2003
Category: 120 DY
Associated ID: Not reported
Current Status: RAONR
Status Date: 12/10/2003
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0001783
Source Type: FLOORDRAIN
Release Town: WAYLAND
Notification Date: 01/15/1987
Category: NONE
Associated ID: Not reported
Current Status: RAO
Status Date: 08/03/1995
Phase: Not reported
Response Action Outcome: B1
Oil Or Haz Material: Oil

LUST:

Facility:
Release Tracking Number/Current Status: 3-0013302 / REMOPS
Status Date: 05/16/2018
Source Type: UST
Release Town: WAYLAND
Notification Date: 01/02/1996
Category: 72 HR
Associated ID: 3-0013302
Phase: PHASE V
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: RESIDNTIAL
Location Type: INDUSTRIAL
Source: UST
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: TPH
Quantity: 48000 parts per million

Actions:
Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 1/12/1996
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/13/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/19/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 1/2/1996
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/2/1996
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/23/2012
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/24/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/28/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/28/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/3/1997
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type:	BOL
Action Status:	SHPFAC
Action Date:	1/30/2013
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/6/2012
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	10/10/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	10/10/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Extension Received
Action Date:	10/15/2004
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Action Status or AUL Terminated
Action Date:	10/17/2016
Response Action Outcome:	Not reported
Action Type:	Phase 4
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	10/7/2004
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	11/10/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	11/10/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	11/10/2011
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	11/10/2011
Response Action Outcome:	Not reported
Action Type:	PIP
Action Status:	Written Plan Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 11/14/2000
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/16/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/16/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/16/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/16/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/16/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 11/16/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/17/2018
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/17/2018
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Public Comment Period Initiated on Submittal
Action Date: 11/19/2003
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/20/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/20/2015
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/21/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/21/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/22/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/22/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/22/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/22/2016
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 11/23/2009
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: As-Built Construction Report Received
Action Date: 11/24/2004
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 11/24/2004
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 11/24/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/24/2006
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Amendment Received or Issued
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/25/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: DEP Disagrees with Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 11/28/2001
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 11/28/2001
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/11/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/11/2008
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: PSARCD
Action Date: 12/15/2016
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NAFVIO
Action Date: 12/29/2009
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Interim Deadline Letter Issued
Action Date: 12/29/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 12/3/2004
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 12/30/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/9/2015
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/1/1996
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 2/2/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/11/1996
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRAN
Action Date: 3/27/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/31/2015
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 3/9/1998
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: Public Comment Period Initiated on Submittal
Action Date: 3/9/2005
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Public Comment Period Initiated on Submittal
Action Date: 3/9/2005
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/2/1999
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/26/2002
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 4/28/1998
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Modified Revised or Updated Plan Received
Action Date: 4/29/2004
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/3/2012
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/14/1999
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 5/14/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 5/15/2003
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/16/2011
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/16/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/16/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/16/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/16/2018
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 5/16/2018
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Public Comment Period Initiated on Submittal
Action Date: 5/17/2002
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/17/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/17/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/19/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/19/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/19/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 5/19/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/20/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/20/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 5/21/1997
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/21/2010
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/21/2010
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/22/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/22/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/22/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/22/2015
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	5/24/2005
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	5/24/2013
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1A Classification
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	5/31/2013
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	6/10/2009
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	6/10/2009
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	6/11/2013
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	6/15/2016
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 6/2/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/2/2008
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Involvement Petition Received
Action Date: 6/24/2000
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: RAO Statement Received
Action Date: 6/8/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPDLY
Action Date: 7/18/2000
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 7/25/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/25/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/29/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/29/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/3/1998
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/31/2003
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/1/1996
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/14/2014
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Comment Period Initiated on Submittal
Action Date: 8/28/2000
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PLANDT
Action Date: 8/28/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Public Comment Period Initiated on Submittal
Action Date: 8/29/2011
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/15/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 9/21/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPMTG
Action Date: 9/28/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Public Comment Period Initiated on Submittal
Action Date: 9/8/2011
Response Action Outcome: Not reported

Action Type: BWS20
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS02
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS10
Action Status: APPROV

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: Not reported
Response Action Outcome: Not reported

Facility:
Release Tracking Number/Current Status: 3-0027651 / DPS
Status Date: 11/26/2007
Source Type: UST
Release Town: WAYLAND
Notification Date: 11/26/2007
Category: 120 DY
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: METHYL TERT-BUTYL ETHER
Quantity: 280 micrograms per liter

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/26/2007
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/26/2007
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 4/17/2008
Response Action Outcome: Not reported

INST CONTROL:
Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: AMEND
Action Date: 11/24/2014
Response Action Outcome: -

Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: LEGNOT
Action Date: 02/02/2012
Response Action Outcome: -

430 BOSTON POST ROAD (Continued) **1000407718**

Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: LEGNOT
Action Date: 11/24/2014
Response Action Outcome: -

Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: PUBCOM
Action Date: 03/09/2005
Response Action Outcome: -

Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: RECPT
Action Date: 01/24/2012
Response Action Outcome: -

Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: RECPT
Action Date: 05/14/1999
Response Action Outcome: -

Release Tracking Number: 3-0013302
Action Type: AUL
Action Stat: SNAUDI
Action Date: 11/23/2009
Response Action Outcome: -

Release Tracking Number: 3-0013574
Action Type: AUL
Action Stat: AMEND
Action Date: 11/24/2014
Response Action Outcome: -

Release Tracking Number: 3-0013574
Action Type: AUL
Action Stat: LEGNOT
Action Date: 11/24/2014
Response Action Outcome: -

Release Tracking Number: 3-0013574
Action Type: AUL
Action Stat: PUBCOM
Action Date: 03/09/2005
Response Action Outcome: -

Release Tracking Number: 3-0013574
Action Type: AUL
Action Stat: RECPT
Action Date: 05/14/1999
Response Action Outcome: -

Release Tracking Number: 3-0013574
Action Type: AUL
Action Stat: SNAUDI

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 11/23/2009
Response Action Outcome: -

Release Tracking Number: 3-0022408
Action Type: AUL
Action Stat: LEGNOT
Action Date: 02/02/2012
Response Action Outcome: -

Release Tracking Number: 3-0022408
Action Type: AUL
Action Stat: RECPT
Action Date: 01/24/2012
Response Action Outcome: -

Release:
Release Tracking Number/Current Status: 3-0001783 / RAO
Primary ID: Not reported
Official City: WAYLAND
Notification: 01/15/1987
Category: NONE
Status Date: 08/03/1995
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1987
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: PIP
Action Status: Public Comment Period Initiated on Submittal
Action Date: 5/19/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: PIP
Action Status: Public Involvement Petition Received
Action Date: 8/3/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/3/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:
Chemical: VOCS

430 BOSTON POST ROAD (Continued) **1000407718**

Quantity:	Not reported
Location Type:	WETLANDS
Location Type:	INDUSTRIAL
Source:	FLOORDRAIN
Release Tracking Number/Current Status:	3-0013302 / REMOPS
Primary ID:	3-0013302
Official City:	WAYLAND
Notification:	01/02/1996
Category:	72 HR
Status Date:	05/16/2018
Phase:	PHASE V
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/12/1996
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/13/2012
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	1/19/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	1/2/1996
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/2/1996
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/23/2012
Response Action Outcome:	Not reported
Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/24/2012
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	1/28/2013
Response Action Outcome:	Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/28/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 1/30/2013
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/6/2012
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Public Comment Period Initiated on Submittal
Action Date: 10/10/2001
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Public Comment Period Initiated on Submittal
Action Date: 10/10/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 10/15/2004
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Action Status or AUL Terminated
Action Date: 10/17/2016
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Public Comment Period Initiated on Submittal
Action Date: 10/7/2004
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 11/10/2010
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/10/2010
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/10/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/10/2011
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Written Plan Received
Action Date: 11/14/2000
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/16/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/16/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/16/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/16/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/16/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 11/16/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/17/2018
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/17/2018
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Public Comment Period Initiated on Submittal
Action Date: 11/19/2003
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/20/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/20/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/21/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/21/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/22/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/22/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/22/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 11/22/2016
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 11/23/2009
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: As-Built Construction Report Received
Action Date: 11/24/2004
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 11/24/2004
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/24/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 11/24/2006
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Amendment Received or Issued
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 11/25/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: DEP Disagrees with Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 11/28/2001
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 11/28/2001
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/11/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/11/2008
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: PSARCD
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NAFVIO
Action Date: 12/29/2009
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Interim Deadline Letter Issued
Action Date: 12/29/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 12/3/2004
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 12/30/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/9/2015
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/1/1996
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 2/2/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/11/1996
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRAN
Action Date: 3/27/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/31/2015
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 3/9/1998
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: Public Comment Period Initiated on Submittal
Action Date: 3/9/2005
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Public Comment Period Initiated on Submittal
Action Date: 3/9/2005
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/2/1999
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/26/2002
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 4/28/1998
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Modified Revised or Updated Plan Received
Action Date: 4/29/2004
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/3/2012
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/14/1999
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 5/14/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 5/15/2003
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/16/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/16/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/16/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/16/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/16/2018
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 5/16/2018
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Public Comment Period Initiated on Submittal
Action Date: 5/17/2002
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/17/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 5/17/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/19/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/19/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/19/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 5/19/2017
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/20/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/20/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 5/21/1997
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/21/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/21/2010
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/21/2010
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/22/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/22/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 5/22/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 5/22/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 5/24/2005
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 5/24/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 5/25/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1A Classification
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 5/31/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 6/10/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/10/2009
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 6/11/2013
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/15/2016
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/2/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/2/2008
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Involvement Petition Received
Action Date: 6/24/2000
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: RAO Statement Received
Action Date: 6/8/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPDLY
Action Date: 7/18/2000
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 7/25/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/25/2012
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	7/29/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	7/29/2013
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	7/3/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	7/31/2003
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	8/1/1996
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	8/14/2014
Response Action Outcome:	Not reported
Action Type:	PIP
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	8/28/2000
Response Action Outcome:	Not reported
Action Type:	PIP
Action Status:	PLANDT
Action Date:	8/28/2000
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	8/29/2011
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	9/15/2011
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	9/21/1999
Response Action Outcome:	Not reported
Action Type:	PIP
Action Status:	PIPMTG

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date:	9/28/2000
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	9/8/2011
Response Action Outcome:	Not reported
Action Type:	BWS20
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	BWS02
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	BWS10
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported

Chemicals:

Chemical:	TPH
Quantity:	48000 parts per million
Location Type:	RESIDNTIAL
Location Type:	INDUSTRIAL
Source:	UST
Source:	UNKNOWN
Release Tracking Number/Current Status:	3-0013574 / RAONR
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	03/15/1996
Category:	120 DY
Status Date:	11/28/2000
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/3/1997
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	1/3/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/31/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/31/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 10/15/2004
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 10/23/2002
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Written Plan Received
Action Date: 11/14/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Public Comment Period Initiated on Submittal
Action Date: 11/19/2003
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 11/23/2009
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Amendment Received or Issued
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 11/28/2000
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Tier Classification
Action Status: DEP Disagrees with Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Approval of Plan
Action Date: 11/6/2001
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/15/1996
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/15/1996
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/28/1996
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Public Comment Period Initiated on Submittal
Action Date: 3/9/2005
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/14/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 5/15/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 5/21/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 5/25/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1A Classification
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Involvement Petition Received
Action Date: 6/24/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPDLY
Action Date: 7/18/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/26/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/29/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/31/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Public Comment Period Initiated on Submittal
Action Date: 8/16/2001
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: PIP
Action Status: Public Comment Period Initiated on Submittal
Action Date: 8/28/2000
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PLANDT
Action Date: 8/28/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/12/2001
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPMTG
Action Date: 9/28/2000
Response Action Outcome: Not reported

Chemicals:
Chemical: ETHENE, 1,1-DICHLORO-
Quantity: 4.8 micrograms per liter
Chemical: ETHENE, TRICHLORO-
Quantity: 72 micrograms per liter
Chemical: NAPHTHALENE
Quantity: 30 micrograms per liter
Chemical: BENZENE
Quantity: 25 micrograms per liter
Chemical: ETHENE, TETRACHLORO-
Quantity: 17 micrograms per liter

Release Tracking Number/Current Status: 3-0014042 / RAONR
Primary ID: Not reported
Official City: WAYLAND
Notification: 07/25/1996
Category: 120 DY
Status Date: 11/28/2000
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification

430 BOSTON POST ROAD (Continued) **1000407718**

Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 10/11/1996
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 10/15/2004
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/7/1996
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Written Plan Received
Action Date: 11/14/2000
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: DEP Disagrees with Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/21/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 5/15/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 5/21/1997

430 BOSTON POST ROAD (Continued) **1000407718**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 5/25/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1A Classification
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Involvement Petition Received
Action Date: 6/24/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPDLY
Action Date: 7/18/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/25/1996
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/25/1996
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/29/2003
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: PIP
Action Status: Public Comment Period Initiated on Submittal
Action Date: 8/28/2000
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PLANDT
Action Date: 8/28/2000
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/8/1996
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPMTG
Action Date: 9/28/2000
Response Action Outcome: Not reported

Chemicals:
Chemical: PCB
Quantity: 1050 milligrams per kilogram
Chemical: TPH
Quantity: 8600 milligrams per kilogram

Release Tracking Number/Current Status: 3-0019482 / RAONR
Primary ID: Not reported
Official City: WAYLAND
Notification: 04/26/2000
Category: TWO HR
Status Date: 11/28/2000
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDD1U

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 10/15/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/29/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/29/2003
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/31/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/31/2002
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Written Plan Received
Action Date: 11/14/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: DEP Disagrees with Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/22/2003
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/25/2002
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/26/2000
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	4/26/2000
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	4/26/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Extension Received
Action Date:	5/15/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	5/21/1997
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	5/24/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1A Classification
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRAN

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 5/4/2000
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/9/2000
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Involvement Petition Received
Action Date: 6/24/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/26/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 6/26/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 6/26/2000
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: PIP
Action Status: PIPDLY
Action Date: 7/18/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 7/18/2003
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Public Comment Period Initiated on Submittal
Action Date: 7/21/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/29/2003
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type:	PIP
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	8/28/2000
Response Action Outcome:	Not reported

Action Type:	PIP
Action Status:	PLANDT
Action Date:	8/28/2000
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	9/10/2004
Response Action Outcome:	Not reported

Action Type:	PIP
Action Status:	PIPMTG
Action Date:	9/28/2000
Response Action Outcome:	Not reported

Chemicals:

Chemical:	BARIUM
Quantity:	150 parts per million
Chemical:	PCB
Quantity:	100 parts per million
Chemical:	AROCLOR 1260
Quantity:	540000 parts per billion
Chemical:	LEAD
Quantity:	1220 parts per million
Chemical:	CHROMIUM
Quantity:	20000 parts per million
Chemical:	CHROMIUM
Quantity:	16000 parts per million
Chemical:	ARSENIC
Quantity:	40 parts per million
Location Type:	COMMERCIAL
Source:	UNKNOWN

Release Tracking Number/Current Status:	3-0022408 / RAONR
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	12/17/2002
Category:	120 DY
Status Date:	06/09/2009
Phase:	PHASE V
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/16/2003
Response Action Outcome:	Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/24/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/3/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 10/15/2004
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Public Comment Period Initiated on Submittal
Action Date: 11/18/2005
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Public Comment Period Initiated on Submittal
Action Date: 11/18/2005
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Public Comment Period Initiated on Submittal
Action Date: 11/19/2003
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: RAO Statement Received
Action Date: 11/26/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: DEP Disagrees with Classification
Action Date: 11/28/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 12/17/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/17/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 12/17/2003
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/20/2005
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 12/20/2005
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 12/23/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Work Started
Action Date: 12/23/2008
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Public Comment Period Initiated on Submittal
Action Date: 12/8/2008
Response Action Outcome: Not reported

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 2/2/2012
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	2/6/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	4/11/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	4/26/2005
Response Action Outcome:	Not reported
Action Type:	PIP
Action Status:	Public Involvement Petition Received
Action Date:	4/6/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Extension Received
Action Date:	5/15/2003
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	5/21/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1A Classification
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	5/30/2000
Response Action Outcome:	Not reported
Action Type:	Phase 4
Action Status:	Public Comment Period Initiated on Submittal
Action Date:	6/14/2008
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site

430 BOSTON POST ROAD (Continued) **1000407718**

Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Modified Revised or Updated Plan Received
Action Date: 7/21/2008
Response Action Outcome: Not reported

Action Type: PIP
Action Status: Public Comment Period Initiated on Submittal
Action Date: 7/27/2007
Response Action Outcome: Not reported

Action Type: Partial RAO for this RTN
Action Status: Public Comment Period Initiated on Submittal
Action Date: 7/27/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/29/2003
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 8/22/2006
Response Action Outcome: Not reported

Action Type: BWS02
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Chemicals:
Chemical: ARSENIC
Quantity: 158 micrograms per liter
Chemical: TOLUENE
Quantity: 2600 parts per billion
Chemical: METHYL TERT-BUTYL ETHER
Quantity: 120 micrograms per liter
Chemical: TRICHLOROETHENE
Quantity: 17040 micrograms per liter

Release Tracking Number/Current Status: 3-0022665 / RAONR
Primary ID: Not reported
Official City: WAYLAND
Notification: 03/12/2003
Category: 120 DY
Status Date: 12/10/2003
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

430 BOSTON POST ROAD (Continued) **1000407718**

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Tier Classification
Action Status:	Tier 1B Classification
Action Date:	1/3/1997
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	1/3/1997
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/3/1997
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Permit Extension Received
Action Date:	10/15/2004
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Tier 1B Classification
Action Date:	11/28/2000
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	DEP Disagrees with Classification
Action Date:	11/28/2000
Response Action Outcome:	Not reported

Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	12/10/2003
Response Action Outcome:	Not reported

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	3/12/2003
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/12/2003
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/2/2003
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Permit Extension Received
Action Date:	5/15/2003
Response Action Outcome:	Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 5/21/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 5/25/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1A Classification
Action Date: 5/30/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/9/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/29/2003
Response Action Outcome: Not reported

Chemicals:
Chemical: CHROMIUM
Quantity: 0.56 milligrams per liter

Release Tracking Number/Current Status: 3-0027651 / DPS
Primary ID: Not reported
Official City: WAYLAND
Notification: 11/26/2007
Category: 120 DY
Status Date: 11/26/2007
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/26/2007
Response Action Outcome: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/26/2007
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 4/17/2008
Response Action Outcome: Not reported

Chemicals:
Chemical: METHYL TERT-BUTYL ETHER
Quantity: 280 micrograms per liter
Location Type: COMMERCIAL
Source: UST

Release Tracking Number/Current Status: 3-0033752 / DPS
Primary ID: Not reported
Official City: WAYLAND
Notification: 02/13/2017
Category: 120 DY
Status Date: 03/13/2017
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/13/2017
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/13/2017
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/13/2017
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Received - FMCRA Use Only
Action Date: 3/20/2017
Response Action Outcome: Not reported

Chemicals:
Chemical: PCE
Quantity: 17 micrograms per liter
Chemical: TCE
Quantity: 72 micrograms per liter
Location Type: UNKOWN
Source: UNKNOWN

430 BOSTON POST ROAD (Continued) **1000407718**

RCRA NonGen / NLR:
Date form received by agency: 02/02/1998
Facility name: 430 BOSTON POST ROAD
Site name: RAYTHEON COMPANY
Facility address: 430 BOSTON POST ROAD
WAYLAND, MA 01778-0000
EPA ID: MAD990685554
Mailing address: 528 BOSTON POST ROAD
SUDBURY, MA 01776-0000
Contact: OWEN T O'ROURKE
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 508-440-3585
Telephone ext.: 3585
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

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

Historical Generators:
Date form received by agency: 02/28/1996
Site name: RAYTHEON ELECTRONIC SERVICES
Classification: Large Quantity Generator

Date form received by agency: 03/28/1994
Site name: RAYTHEON-ED/EDL
Classification: Large Quantity Generator

Date form received by agency: 03/27/1992
Site name: RAYTHEON COMPANY ED/EDL
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990
Site name: RAYTHEON COMPANY
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

430 BOSTON POST ROAD (Continued) **1000407718**

Site name: 430 BOSTON POST ROAD
Classification: Not a generator, verified

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

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

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

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

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

430 BOSTON POST ROAD (Continued) **1000407718**

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U126
. Waste name: GLYCIDYLALDEHYDE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 08/18/1980
Site name: 430 BOSTON POST ROAD
Classification: Not a generator, verified

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/24/1990
Date achieved compliance: 05/24/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/12/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/29/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/07/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/24/1990
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/24/1990
Evaluation lead agency: State

ICIS:
Enforcement Action ID: MA000A0000251190127500039
FRS ID: 110043922342
Action Name: TWENTY WAYLAND LLC 251190127500039
Facility Name: TWENTY WAYLAND LLC
Facility Address: 430 BOSTON POST ROAD
WAYLAND, MA 017780000
Enforcement Action Type: Notice of Violation
Facility County: MIDDLESEX
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3622
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 42.363316
Longitude in Decimal Degrees: -71.373896
Permit Type Desc: Not reported
Program System Acronym: MA0000002511901275
Facility NAICS Code: 335999
Tribal Land Code: Not reported

Enforcement Action ID: MA000A0000251190127500016
FRS ID: 110043922342
Action Name: TWENTY WAYLAND LLC 251190127500016
Facility Name: TWENTY WAYLAND LLC
Facility Address: 430 BOSTON POST ROAD
WAYLAND, MA 017780000
Enforcement Action Type: Notice of Violation
Facility County: MIDDLESEX
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal

430 BOSTON POST ROAD (Continued) **1000407718**

EA Type Code: NOV
Facility SIC Code: 3622
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 42.363316
Longitude in Decimal Degrees: -71.373896
Permit Type Desc: Not reported
Program System Acronym: MA0000002511901275
Facility NAICS Code: 335999
Tribal Land Code: Not reported

US AIRS MINOR:
Envid: 1000407718
Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
D and B Number: Not reported
Primary SIC Code: 3622
NAICS Code: 335999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-04-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-05-17 00:00:00
Activity Status Date: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-07-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-04-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN

430 BOSTON POST ROAD (Continued) **1000407718**

Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1991-03-01 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1991-10-24 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1992-01-31 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1993-02-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1993-05-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275

430 BOSTON POST ROAD (Continued) **1000407718**

Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-02-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-12-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-10-20 00:00:00
Activity Status Date: 1989-10-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-10-28 00:00:00
Activity Status Date: 2005-10-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

US AIRS MINOR:
Envid: 1000407718
Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
D and B Number: Not reported
Primary SIC Code: 3622
NAICS Code: 335999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

430 BOSTON POST ROAD (Continued) **1000407718**

Activity Date:	1988-04-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1988-05-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1988-07-27 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1989-04-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1989-08-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342

430 BOSTON POST ROAD (Continued) **1000407718**

Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1993-05-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1994-02-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1996-02-29 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1996-04-23 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	01
Programmatic ID:	AIR MA0000002511901275
Facility Registry ID:	110043922342
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1999-03-03 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring

430 BOSTON POST ROAD (Continued) **1000407718**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-12-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-10-20 00:00:00
Activity Status Date: 1989-10-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 01
Programmatic ID: AIR MA0000002511901275
Facility Registry ID: 110043922342
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-10-28 00:00:00
Activity Status Date: 2005-10-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

FINDS:

Registry ID: 110043922342

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

430 BOSTON POST ROAD (Continued) **1000407718**

AIR EMISSIONS CLASSIFICATION UNKNOWN

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

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

AIR MINOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000407718
Registry ID:	110043922342
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110043922342

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0013302
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	12/29/2009
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

SEP $: Not reported
Demand $: Not reported
Suspended $: Not reported
Ownership: Commercially Owned

HW GEN:
EPA Id: MAC300008828
RCRA Generator Status: VSQG
State Generator Status: Not reported

NY MANIFEST:
Country: USA
EPA ID: MAD990685554
Facility Status: Not reported
Location Address 1: 430 BOSTON POST ROAD
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: WAYLAND
Location State: MA
Location Zip: 01778
Location Zip 4: Not reported

NY MANIFEST:
EPAID: MAD990685554
Mailing Name: RAYTHEON CORPORATION BUILDING 6
Mailing Contact: RAYTHEON CORPORATION BUILDING 6
Mailing Address 1: BOSTON POST ROAD
Mailing Address 2: Not reported
Mailing City: WAYLAND
Mailing State: MA
Mailing Zip: 01778
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 6173582721

NY MANIFEST:
Document ID: NYB7393725
Manifest Status: C
seq: Not reported
Year: 1996
Trans1 State ID: T695KBOH
Trans2 State ID: Not reported
Generator Ship Date: 01/18/1996
Trans1 Recv Date: 01/18/1996
Trans2 Recv Date: / /
TSD Site Recv Date: 01/19/1996
Part A Recv Date: 02/05/1996
Part B Recv Date: 02/02/1996
Generator EPA ID: MAD990685554
Trans1 EPA ID: OHD009865825
Trans2 EPA ID: Not reported
TSDF ID 1: NYD049836679
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D006 - CADMIUM 1.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	12583
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

TIER 2:

Report Year:	2015
Facility Id:	FATR2015000000006411
Facility Dept:	Not reported
Latitude:	42.3666
Longitude:	-71.3711
Mailing Address:	50 Apple Hill Drive
Mailing City/State/Zip:	01876-
Mailing Country:	United States
Notes:	Not reported
All Chemicals Same As Last Yr:	Not reported
Date Signed:	02/25/2016
Dike Or Other Safeguard:	F
Failed Validation:	Not reported
Date Modified:	05/19/2016
Fees Total:	Not reported
Num Of Employees:	3
Site Coord Abbreviated?:	F
Site Map:	T
State Label Code:	Not reported
Submitted By:	Louis Burkhardt
Validation Report:	Not reported
Fire District:	Not reported
Latlong Location Description:	Not reported
Latlong Method:	Not reported

430 BOSTON POST ROAD (Continued) **1000407718**

UIC:

RTN Number:	3-0013302
Permit Date:	05/16/2018
Actor Name:	RAYTHEON COMPANY
Air Sparging:	No
Injection Well:	Yes/Active
ReInjection Well:	Yes/Active
Latitude:	42.364502549999997
Longitude:	-71.367250979999994

C19 **NSTAR GAS & ELECTRIC** **MA SHWS** **S108117649**
East **MBTA ROW NR400-440BOSTONPOSTRD** **MA RELEASE** **N/A**
1/4-1/2 **WAYLAND, MA 01778** **MA ENF**
0.480 mi.
2533 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
127 ft.

SHWS:

Facility ID:	3-0026027
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	07/06/2006
Category:	TWO HR
Associated ID:	Not reported
Current Status:	DEPNFA
Status Date:	04/23/2009
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Release:

Release Tracking Number/Current Status:	3-0026027 / DEPNFA
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	07/06/2006
Category:	TWO HR
Status Date:	04/23/2009
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Compliance and Enforcement Action
Action Status:	CILS
Action Date:	1/8/2008
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	1/8/2008
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	DEPNFA
Action Date:	4/23/2009

NSTAR GAS & ELECTRIC (Continued) **S108117649**

Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/23/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 6/22/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDD1A
Action Date: 7/10/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/6/2006
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/6/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 7/6/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/21/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 8/21/2006
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/8/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/8/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 9/26/2006
Response Action Outcome: Not reported

NSTAR GAS & ELECTRIC (Continued) **S108117649**

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/28/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/6/2006
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/6/2006
Response Action Outcome: Not reported

Chemicals:
Chemical: ARSENIC
Quantity: 130 milligrams per kilogram
Location Type: RIGHTOFWAY
Source: UNKNOWN

ENFORCEMENT:
Region: NERO
DEP Region: NERO
DEP Program: 3C
DEP Bureau: BWSC
Program: Not reported
Program Id: 3-0026027
High Or Low Level Enforcement: LLE
FMF #: Not reported
Comptroller Billing Name: Not reported
Town Where Violation Occurred: Not reported
Date Executed: 02/13/2008
ENF #: Not reported
Document Type: IDL
AG Ref (Y/N): Not reported
Doc Archived (Y/N): Not reported
EJ Community (Y/N): Not reported
Regional Comment: Not reported
Final Payment Due Date: Not reported
ACOP $: Not reported
PAN $: Not reported
EMS (Y/N): Not reported
EMS$: Not reported
SEP (Y/N): Not reported
SEP $: Not reported
Demand $: Not reported
Suspended $: Not reported
Ownership: Commercially Owned

Region: NERO
DEP Region: NERO
DEP Program: 3C
DEP Bureau: BWSC
Program: Not reported
Program Id: 3-0026027

NSTAR GAS & ELECTRIC (Continued) **S108117649**

High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	01/08/2008
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

20
West
1/2-1
0.617 mi.
3258 ft.

UNION CARBIDE LINDE DIV
141 BOSTON POST RD
SUDBURY, MA 01776

MA SHWS **S101018399**
MA LUST **N/A**
MA SPILLS
MA RELEASE

Relative:
Lower

Actual:
133 ft.

SHWS:

Facility ID:	3-0002545
Source Type:	LAGOON
Release Town:	SUDBURY
Notification Date:	08/15/1989
Category:	NONE
Associated ID:	Not reported
Current Status:	WCSPRM
Status Date:	03/11/1996
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil

Facility ID:	3-0002545
Source Type:	UNKNOWN
Release Town:	SUDBURY
Notification Date:	08/15/1989
Category:	NONE
Associated ID:	Not reported
Current Status:	WCSPRM
Status Date:	03/11/1996
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil

LUST:

Facility:

Release Tracking Number/Current Status:	3-0002545 / WCSPRM
Status Date:	03/11/1996

UNION CARBIDE LINDE DIV (Continued) **S101018399**

Source Type: UST
Release Town: SUDBURY
Notification Date: 08/15/1989
Category: NONE
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: FORMER
Location Type: MANUFACT
Source: UNKNOWN
Source: LAGOON
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: WASTE OIL
Quantity: Not reported

Actions:
Action Type: TREGS
Action Status: WAVSIG
Action Date: 12/21/1993
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVACC
Action Date: 2/4/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WCSPRM
Action Date: 3/11/1996
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVREC
Action Date: 6/18/1993
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 8/15/1989
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/15/1989
Response Action Outcome: Not reported

MA Spills:
Facility ID: 3-2545 Spill ID: N88-0430

UNION CARBIDE LINDE DIV (Continued) **S101018399**

Staff Lead:	BRADLEY, R	Date Entered:	19880526
Last Entered:	19931101	First Response:	19880325
Spill Date:	19880325	Spill Time:	11:30AM
Report Date:	19880325	Report Time:	02:00PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	WASTE OIL	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	_____	Qty Actual:	_____
CAS No:	Not reported	PCB Lev (ppm):	_____
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	___	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	D RENNER/UNION CARBIDE		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Release Tracking Number/Current Status:	3-0002545 / WCSPRM
Primary ID:	Not reported
Official City:	SUDBURY
Notification:	08/15/1989
Category:	NONE
Status Date:	03/11/1996
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	12/21/1993
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVACC
Action Date:	2/4/1994
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WCSPRM
Action Date:	3/11/1996
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVREC
Action Date:	6/18/1993
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Valid Transition Site

UNION CARBIDE LINDE DIV (Continued) **S101018399**

Action Date: 8/15/1989
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/15/1989
Response Action Outcome: Not reported

Chemicals:
Chemical: WASTE OIL
Quantity: Not reported
Location Type: FORMER
Location Type: MANUFACT
Source: UNKNOWN
Source: LAGOON
Source: UST

D21 **COOKS AUTOMOTIVE OF WAYLAND** **MA SHWS** **U001006636**
East **356 BOSTON POST RD** **MA LUST** **N/A**
1/2-1 **WAYLAND, MA 01778** **MA UST**
0.694 mi. **MA RELEASE**
3665 ft. **Site 1 of 3 in cluster D** **MA ENF**
MA HW GEN

Relative: Lower

Actual: 124 ft.

SHWS:
Facility ID: 3-0017974
Source Type: PIPE
Release Town: WAYLAND
Notification Date: 02/04/1999
Category: 120 DY
Associated ID: Not reported
Current Status: RAO
Status Date: 06/07/2013
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Oil

LUST:

Facility:
Release Tracking Number/Current Status: 3-0017974 / RAO
Status Date: 06/07/2013
Source Type: UST
Release Town: WAYLAND
Notification Date: 02/04/1999
Category: 120 DY
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Source: PIPE
Source: UST

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

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Chemicals:

Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	5620 milligrams per kilogram
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	3930 milligrams per kilogram
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	8220 milligrams per kilogram

Actions:

Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	1/29/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	1/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 2
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	1/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	10/13/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/9/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINI
Action Date:	10/9/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Amendment Received or Issued
Action Date:	11/4/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Date: 12/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/22/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 12/31/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/31/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/19/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/19/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 2/3/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/3/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 2/4/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/4/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 1C Classification
Action Date: 2/4/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 3/24/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 3/24/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 4/12/2012

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

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

Action Type: Phase 5
Action Status: RMRINT
Action Date: 4/12/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 6/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 6/4/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 6/5/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Type:	Phase 4
Action Status:	Completion Statement Received
Action Date:	6/5/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Submittal Received
Action Date:	6/5/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	6/7/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Completion Statement Received
Action Date:	6/7/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	6/7/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	7/20/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	8/2/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	ACOP
Action Date:	8/31/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	8/4/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	8/4/2009

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

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

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 9/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 9/19/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 9/19/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Submittal Retracted
Action Date: 9/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 9/30/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 9/8/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 9/8/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 9/9/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Type:	BWS03
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	BWS20
Action Status:	WITHD
Action Date:	Not reported
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	BWS20
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

UST:

Facility:

Facility ID:	11320
Owner Id:	18949
Owner:	CONCORD OIL COMPANY INC
Owner Address:	147 LOWELL RD
Owner City,St,Zip:	CONCORD, MA 01742
Telephone:	Not reported
Description:	Retail Motor Vehicle Fuel
Facility address 2:	Not reported
Owner address 2:	Not reported
Latitude:	42.36340
Longitude:	-71.36725
Contact name:	nancy cook
Contact address1:	147 lowell road
Contact address2:	Not reported
Contact city:	concord
Contact state:	MA
Contact zip:	01742
Contact email:	njcook@concordoilcompany.com
Update:	2007-05-30 00:00:00
Update by:	Not reported
Fac status:	CLOSED

Tank ID:	1
Tank Status:	**Tank Removed**
Status Date:	12/15/1998
Date Installed:	05/13/1982
Capacity:	4000.00000
Contents:	Diesel
Tank Usage:	Not reported
Tank Leak Detection:	Manual Tank Gauging (1,000G or more capacity tank)
Pipe Leak Detection:	Annual Automatic Line Leak Detection Test
Latitude:	Not reported
Longitude:	Not reported
Tank construct:	Single-walled metal tank (cathodic protection required)

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Not reported
Leak corrosion type: Not reported

Tank ID: 2
Tank Status: Tank Removed
Status Date: 09/05/2006
Date Installed: 05/13/1969
Capacity: 4000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Annual Automatic Line Leak Detection Test
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

Tank ID: 3
Tank Status: Tank Removed
Status Date: 09/05/2006
Date Installed: 05/13/1969
Capacity: 4000.00000

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Annual Automatic Line Leak Detection Test
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

Tank ID: 4
Tank Status: Tank Removed
Status Date: 09/05/2006
Date Installed: 05/13/1969
Capacity: 4000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Annual Automatic Line Leak Detection Test
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Tank ID: 5
Tank Status: Tank Removed
Status Date: 09/05/2006
Date Installed: 05/13/1969
Capacity: 4000.00000
Contents: Diesel
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Annual Automatic Line Leak Detection Test
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

Tank ID: 6
Tank Status: Tank Removed
Status Date: 12/15/1998
Date Installed: 05/13/1969
Capacity: 500.00000
Contents: Waste Oil
Tank Usage: Not reported
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Not reported
Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Not reported
Leak corrosion type: Not reported

Release:

Release Tracking Number/Current Status:	3-0017974 / RAO
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	02/04/1999
Category:	120 DY
Status Date:	06/07/2013
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	1/29/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	1/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Phase 2
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	1/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	10/13/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	10/9/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Phase 5
Action Status:	RMRINI
Action Date:	10/9/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Type: Compliance and Enforcement Action
Action Status: Amendment Received or Issued
Action Date: 11/4/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 12/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/22/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 12/31/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/31/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/19/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/19/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 2/3/2011

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

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

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/3/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 2/4/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/4/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 1C Classification
Action Date: 2/4/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 3/24/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 3/24/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 4/12/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 4/12/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/28/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 6/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 6/4/2003

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

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

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 6/5/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 6/5/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 6/5/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 6/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Completion Statement Received
Action Date: 6/7/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/7/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/2/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 8/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

Action Type: Phase 5
Action Status: RMRINT
Action Date: 8/4/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 8/4/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 9/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 9/19/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 9/19/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Submittal Retracted
Action Date: 9/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 9/30/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 9/8/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 9/8/2010

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

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

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 9/9/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BWS03
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BWS20
Action Status: WITHD
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BWS20
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 5620 milligrams per kilogram
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 3930 milligrams per kilogram
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 8220 milligrams per kilogram
Source: PIPE
Source: UST

ENFORCEMENT:
Region: NERO
DEP Region: NERO
DEP Program: 3R
DEP Bureau: BWSC
Program: BWSC
Program Id: 3-0017974
High Or Low Level Enforcement: HLE
FMF #: Not reported
Comptroller Billing Name: Not reported
Town Where Violation Occurred: Not reported
Date Executed: 11/04/2010
ENF #: ACOP-NE-08-3R007-AMENDED
Document Type: AMEND
AG Ref (Y/N): Not reported
Doc Archived (Y/N): Not reported
EJ Community (Y/N): N
Regional Comment: Not reported
Final Payment Due Date: Not reported

COOKS AUTOMOTIVE OF WAYLAND (Continued) **U001006636**

ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned
Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0017974
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	08/31/2009
ENF #:	ACOP-NE-08-3R007
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	09/30/2010
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Y
SEP $:	10000
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

HW GEN:

EPA Id:	MV5083584600
RCRA Generator Status:	VSQG
State Generator Status:	VQG-MA

22
WSW
1/2-1
0.704 mi.
3718 ft.

BUDDY DOG ANIMAL HOSPITAL **MA SHWS** **S104482309**
163 BOSTON POST RD **MA RELEASE** **N/A**
SUDBURY, MA 01776 **MA ASBESTOS**

Relative:
Lower

Actual:
136 ft.

SHWS:

Facility ID:	3-0018895
Source Type:	TRANSFORM
Release Town:	SUDBURY
Notification Date:	10/28/1999
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAO

BUDDY DOG ANIMAL HOSPITAL (Continued) **S104482309**

Status Date: 11/19/1999
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Oil

Release:
Release Tracking Number/Current Status: 3-0018895 / RAO
Primary ID: Not reported
Official City: SUDBURY
Notification: 10/28/1999
Category: TWO HR
Status Date: 11/19/1999
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 11/19/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/19/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/6/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: MODF NON PCB
Quantity: 120 gallons
Chemical: TRANSFORMER OIL
Quantity: 105 gallons
Location Type: COMMERCIAL

BUDDY DOG ANIMAL HOSPITAL (Continued) **S104482309**

Source: TRANSFORM

ASBESTOS:

Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	10/17/2005
End Date:	10/28/2005
Date Entered:	Not reported
Entry Date:	10/06/2005
Quantity Materical Removed SF:	35.00
Quantity Material Removed LF:	150.00
Project Description:	BOILER,ELECTRICAL CONTROL WIRING,CLOTHS
AR Tracking ID:	59813
Super Lic Number:	AS052678
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300752
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(781) 441-3192
Sub Town:	Not reported
Worksite:	SUBSTATION- ELECTRICAL BREAKERS
Occupied:	Not reported
Contractor:	AC000490
Contract Type:	Not reported
Hours:	8A-33P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NSTAR ELECTRIC
Owner Address:	1 NSTAR WAY
Owner City:	WESTWOOD
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	ATLANTIC CONTRACTING
Transporter Address:	15 PERWAL ST
Transporter City:	WESTWOOD
Transporter State:	MA
Final Site:	7
Certified Name:	THOMAS YONTZ
Cert Sign Date:	09/30/2005
Certified Company:	Not reported
Certified Phone:	Not reported

BUDDY DOG ANIMAL HOSPITAL (Continued) **S104482309**

Entered_by:	esandler
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/23/2002
End Date:	05/26/2002
Date Entered:	Not reported
Entry Date:	05/30/2002
Quantity Materical Removed SF:	.00
Quantity Material Removed LF:	24.00
Project Description:	cloths&thermal?&ins cement
AR Tracking ID:	16747
Super Lic Number:	AS052543
Monitor Lic Number:	AM032359
Lab Lic Number:	AA000144
Year:	2002
Sticker Number:	606174
Form Type:	ANF-001
Fee Status:	20
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	inside manholes
Occupied:	0
Contractor:	AC000490
Contract Type:	Not reported
Hours:	m-f 7-330
Project Type:	Renovation
Abatement Process:	Glove Bag
Location:	Not reported
Decon Process:	Mini Seal"
Disposal Methods:	2 Ply Poly Bag with Label
Facility Usage:	elec manholes&vaults
Waiver Given:	-1
DEP Waiver Number:	blanket 0101821
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	boston edison co
Owner Address:	600 boylston street
Owner City:	boston
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	american protection
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	varies
Transporter Name:	waste mgmt boston/north
Transporter Address:	204 merrimack street
Transporter City:	woburn
Transporter State:	MA
Final Site:	7
Certified Name:	john lamberton
Cert Sign Date:	05/23/2002
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported

BUDDY DOG ANIMAL HOSPITAL (Continued) **S104482309**

Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/01/2006
End Date:	05/04/2006
Date Entered:	Not reported
Entry Date:	04/19/2006
Quantity Materical Removed SF:	100.00
Quantity Material Removed LF:	300.00
Project Description:	TRANSITE BOARD, ELECTRICAL CONTROL WIRING
AR Tracking ID:	66940
Super Lic Number:	AS052678
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	302791
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(781) 441-3191
Sub Town:	Not reported
Worksite:	SUBSTATION - ELECTRICAL PANEL
Occupied:	Not reported
Contractor:	AC000490
Contract Type:	Not reported
Hours:	8-3:30
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	DOUBLE SUIT TYVEK, VACUUM
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NSTAR ELECTRIC AND GAS
Owner Address:	ONE NSTAR WAY
Owner City:	WESTWOOD
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	THOMAS S YONTZ
Cert Sign Date:	04/13/2006
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	esandler

D23
East
1/2-1
0.724 mi.
3824 ft.

334-338 BOSTON POST ROAD NOMINEE TRUST
338 BOSTON POST ROAD
WAYLAND, MA 01778

Site 2 of 3 in cluster D

MA SHWS **U003655096**
MA RELEASE **N/A**
MA ENF
MA HW GEN

Relative:
Lower

Actual:
125 ft.

SHWS:

Facility ID:	3-0030287
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	09/14/2011
Category:	120 DY
Associated ID:	Not reported
Current Status:	TMPS
Status Date:	09/20/2016
Phase:	PHASE IV
Response Action Outcome:	TF
Oil Or Haz Material:	Oil and Hazardous Material

Release:

Release Tracking Number/Current Status:	3-0030287 / TMPS
Primary ID:	Not reported
Official City:	WAYLAND
Notification:	09/14/2011
Category:	120 DY
Status Date:	09/20/2016
Phase:	PHASE IV
Response Action Outcome:	TF - TF
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	10/23/2012
Response Action Outcome:	TF

Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	10/31/2012
Response Action Outcome:	TF

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/11/2011
Response Action Outcome:	TF

Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	11/11/2011
Response Action Outcome:	TF

Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	12/17/2015
Response Action Outcome:	TF

334-338 BOSTON POST ROAD NOMINEE TRUST (Continued) **U003655096**

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 3/19/2014
Response Action Outcome: TF

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 3/2/2015
Response Action Outcome: TF

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 7/11/2012
Response Action Outcome: TF

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/14/2011
Response Action Outcome: TF

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/14/2011
Response Action Outcome: TF

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 9/14/2011
Response Action Outcome: TF

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/14/2012
Response Action Outcome: TF

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 9/14/2012
Response Action Outcome: TF

Action Type: Tier Classification
Action Status: Tier 1C Classification
Action Date: 9/14/2012
Response Action Outcome: TF

Action Type: Response Action Outcome - RAO
Action Status: TSFRCD
Action Date: 9/20/2016
Response Action Outcome: TF

Action Type: BWS03
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: TF

Chemicals:
Chemical: METHYL TERT-BUTYL ETHER

334-338 BOSTON POST ROAD NOMINEE TRUST (Continued) **U003655096**

Quantity:	2920 micrograms per liter
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	1000 micrograms per liter
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	791 micrograms per liter
Location Type:	COMMERCIAL
Source:	UNKNOWN

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0030287
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	09/14/2011
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	N
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

HW GEN:

EPA Id:	MAD981885551
RCRA Generator Status:	VSQG
State Generator Status:	Not reported

EPA Id:	MV5083587760
RCRA Generator Status:	Not reported
State Generator Status:	SQG-MA

D24 **NO LOCATION AID** **MA SHWS** **S110124997**
East **325 BOSTON POST RD** **MA LUST** **N/A**
1/2-1 **WAYLAND, MA 01778** **MA RELEASE**
0.738 mi. **MA ASBESTOS**
3898 ft. **Site 3 of 3 in cluster D**

Relative: SHWS:
Lower

Facility ID:	3-0029040
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	01/28/2010

Actual:
121 ft.

NO LOCATION AID (Continued) **S110124997**

Category:	120 DY
Associated ID:	Not reported
Current Status:	DPS
Status Date:	02/26/2010
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil and Hazardous Material

LUST:

Facility:

Release Tracking Number/Current Status:	3-0029040 / DPS
Status Date:	02/26/2010
Source Type:	UST
Release Town:	WAYLAND
Notification Date:	01/28/2010
Category:	120 DY
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	UNKNOWN
Location Type:	COMMERCIAL
Source:	UNKNOWN
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	METHYL TERT-BUTYL ETHER
Quantity:	2920 micrograms per liter
Chemical:	ARSENIC
Quantity:	97 micrograms per liter
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	1410 micrograms per liter
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	1270 micrograms per liter
Chemical:	BENZENE
Quantity:	193 micrograms per liter

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/28/2010
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/28/2010
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Modified Transmittal Received - DPS Transfer
Action Date:	11/11/2010

NO LOCATION AID (Continued) **S110124997**

Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 11/2/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Modified Transmittal Received - DPS Transfer
Action Date: 12/16/2010
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/24/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/26/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Received - FMCRA Use Only
Action Date: 3/2/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/20/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 4/22/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 4/22/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 8/10/2011
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/18/2010
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/14/2011
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S110124997**

Release:
Release Tracking Number/Current Status: 3-0029040 / DPS
Primary ID: Not reported
Official City: WAYLAND
Notification: 01/28/2010
Category: 120 DY
Status Date: 02/26/2010
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/28/2010
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/28/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Modified Transmittal Received - DPS Transfer
Action Date: 11/11/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 11/2/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Modified Transmittal Received - DPS Transfer
Action Date: 12/16/2010
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/24/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/26/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Received - FMCRA Use Only
Action Date: 3/2/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received

NO LOCATION AID (Continued) **S110124997**

Action Date: 4/20/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 4/22/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 4/22/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 8/10/2011
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/18/2010
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/14/2011
Response Action Outcome: Not reported

Chemicals:
Chemical: METHYL TERT-BUTYL ETHER
Quantity: 2920 micrograms per liter
Chemical: ARSENIC
Quantity: 97 micrograms per liter
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 1410 micrograms per liter
Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity: 1270 micrograms per liter
Chemical: BENZENE
Quantity: 193 micrograms per liter
Location Type: UNKNOWN
Location Type: COMMERCIAL
Source: UNKNOWN
Source: UST

ASBESTOS:
Notification: Not reported
DEP Region: Not reported
Notifiers Name: Not reported
Start Date: 03/17/2010
End Date: 03/18/2010
Date Entered: Not reported
Entry Date: 03/17/2010
Quantity Materical Removed SF: 750.00
Quantity Material Removed LF: 101.00
Project Description: Ctr,Trns
AR Tracking ID: 124027

NO LOCATION AID (Continued) **S110124997**

Super Lic Number:	AS032025
Monitor Lic Number:	AA000144
Lab Lic Number:	AA000156
Year:	2010
Sticker Number:	100102855
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	6033821422
Sub Town:	Not reported
Worksite:	BARBER SHOP
Occupied:	0
Contractor:	AC000407
Contract Type:	WRITTEN
Hours:	Week days: 7AM-3:30PM Week end:
Project Type:	Dem,Oth:ASBESTOS
Abatement Process:	Encl,Clnp,Fcontain
Location:	Indoors
Decon Process:	3 CHAMBER REMOTE
Disposal Methods:	6MIL POLY BAGS OR LND DRMS PROPERLY LABELED & DSPD IN APPRVD LANDFILL
Facility Usage:	RETAIL
Waiver Given:	Not reported
DEP Waiver Number:	10039933
DLWD Waiver Number:	HV10081
Small Owner Occ:	5
Owner Name:	CVS PHARMACY
Owner Address:	1 CVS DRIVE
Owner City:	WOONSOCKET
Owner State:	MA
On Site Manager Name:	GEORGE MELLO
On Site Manager Phone:	SAME
Ins Comp:	AIG
Policy Number:	AIG
EXP Date:	3/20/2010
Facility Size:	10000
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	39
Certified Name:	LAUREN RUSSO
Cert Sign Date:	03/17/2010
Certified Company:	ECSI
Certified Phone:	6036429200
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	03/08/2010
End Date:	03/12/2010
Date Entered:	Not reported
Entry Date:	02/19/2010
Quantity Materical Removed SF:	.00
Quantity Material Removed LF:	400.00
Project Description:	Ctr
AR Tracking ID:	123191
Super Lic Number:	AS032025

NO LOCATION AID (Continued) **S110124997**

Monitor Lic Number:	AA000144
Lab Lic Number:	AA000156
Year:	2010
Sticker Number:	100101830
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	6033821422
Sub Town:	Not reported
Worksite:	EXTERIOR
Occupied:	0
Contractor:	AC000407
Contract Type:	WRITTEN
Hours:	Week days: 7AM-3:30PM Week end:
Project Type:	Dem,Oth:ASBESTOS
Abatement Process:	Clnp,Disp
Location:	Not reported
Decon Process:	DOUBLE SUIT
Disposal Methods:	6MIL POLY BAGS OR LND DRMS PRPLY LABELED & DSPD IN APPRVD LANDFILL
Facility Usage:	RETAIL
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	CVS PHARMACY
Owner Address:	1 CVS DRIVE
Owner City:	WOONSOCKET
Owner State:	MA
On Site Manager Name:	GEORGE MELLO
On Site Manager Phone:	SAME
Ins Comp:	AIG
Policy Number:	AIG
EXP Date:	3/20/2010
Facility Size:	10000
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	39
Certified Name:	LAUREN RUSSO
Cert Sign Date:	02/19/2010
Certified Company:	ECSI
Certified Phone:	6036429200
Entered_by:	Not reported

25
NE
1/2-1
0.749 mi.
3954 ft.

NO LOCATION AID
86 OLD SUDBURY ROAD
WAYLAND, MA 01778

MA SHWS **S117405699**
MA RELEASE **N/A**

Relative:
Higher

Actual:
143 ft.

SHWS:

Facility ID:	3-0032618
Source Type:	LINE
Release Town:	WAYLAND
Notification Date:	11/28/2014
Category:	TWO HR
Associated ID:	Not reported
Current Status:	PSNC

NO LOCATION AID (Continued) **S117405699**

Status Date: 01/26/2015
Phase: Not reported
Response Action Outcome: PN
Oil Or Haz Material: Oil

Facility ID: 3-0032618
Source Type: VEHICLE
Release Town: WAYLAND
Notification Date: 11/28/2014
Category: TWO HR
Associated ID: Not reported
Current Status: PSNC
Status Date: 01/26/2015
Phase: Not reported
Response Action Outcome: PN
Oil Or Haz Material: Oil

Facility ID: 3-0032618
Source Type: SADDLE
Release Town: WAYLAND
Notification Date: 11/28/2014
Category: TWO HR
Associated ID: Not reported
Current Status: PSNC
Status Date: 01/26/2015
Phase: Not reported
Response Action Outcome: PN
Oil Or Haz Material: Oil

Facility ID: 3-0032618
Source Type: TANK
Release Town: WAYLAND
Notification Date: 11/28/2014
Category: TWO HR
Associated ID: Not reported
Current Status: PSNC
Status Date: 01/26/2015
Phase: Not reported
Response Action Outcome: PN
Oil Or Haz Material: Oil

Release:
Release Tracking Number/Current Status: 3-0032618 / PSNC
Primary ID: Not reported
Official City: WAYLAND
Notification: 11/28/2014
Category: TWO HR
Status Date: 01/26/2015
Phase: Not reported
Response Action Outcome: PN - PN
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: BOL

NO LOCATION AID (Continued) **S117405699**

Action Status: SHPFAC
Action Date: 1/22/2015
Response Action Outcome: PN

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/22/2015
Response Action Outcome: PN

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/22/2015
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 1/26/2015
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/28/2014
Response Action Outcome: PN

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/28/2014
Response Action Outcome: PN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/28/2014
Response Action Outcome: PN

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/12/2014
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/12/2014
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 12/8/2014
Response Action Outcome: PN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/8/2014
Response Action Outcome: PN

Chemicals:
Chemical: DIESEL FUEL
Quantity: Not reported

NO LOCATION AID (Continued) **S117405699**

Chemical:	HYDRAULIC FLUID &
Quantity:	50 gallons
Location Type:	RESIDNTIAL
Location Type:	ROADWAY
Source:	LINE
Source:	VEHICLE
Source:	SADDLE
Source:	TANK

26
SW
1/2-1
0.795 mi.
4195 ft.

NO LOCATION AID **MA SHWS S111277328**
19 HAWTHORNE ROAD **MA RELEASE N/A**
SUDBURY, MA 01776

Relative:
Lower

Actual:
135 ft.

SHWS:

Facility ID:	3-0030271
Source Type:	TRANSFORM
Release Town:	SUDBURY
Notification Date:	08/31/2011
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAO
Status Date:	10/12/2011
Phase:	Not reported
Response Action Outcome:	A1
Oil Or Haz Material:	Oil

Release:

Release Tracking Number/Current Status:	3-0030271 / RAO
Primary ID:	Not reported
Official City:	SUDBURY
Notification:	08/31/2011
Category:	TWO HR
Status Date:	10/12/2011
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/12/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	7/11/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action

NO LOCATION AID (Continued) **S111277328**

Action Date: 8/31/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/31/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/19/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/23/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/23/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:
Chemical: MODF NON PCB
Quantity: 22 gallons
Location Type: WATERBODY
Location Type: RESIDNTIAL
Location Type: ROADWAY
Source: TRANSFORM

E27 **WAYLAND CLEANERS** **MA SHWS** **S107405588**
East **304 BOSTON POST RD** **MA RELEASE** **N/A**
1/2-1 **WAYLAND, MA 01778** **MA UIC**
0.808 mi.
4264 ft. **Site 1 of 3 in cluster E**

Relative: Lower
Actual: 118 ft.

SHWS:
Facility ID: 3-0025196
Source Type: Not reported
Release Town: WAYLAND
Notification Date: 08/22/2005
Category: 120 DY
Associated ID: Not reported
Current Status: DPS
Status Date: 03/30/2006
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Facility ID: 3-0025637
Source Type: UNKNOWN

WAYLAND CLEANERS (Continued) **S107405588**

Release Town: WAYLAND
Notification Date: 02/02/2006
Category: TWO HR
Associated ID: Not reported
Current Status: RAONR
Status Date: 04/03/2006
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Release:
Release Tracking Number/Current Status: 3-0025196 / DPS
Primary ID: Not reported
Official City: WAYLAND
Notification: 08/22/2005
Category: 120 DY
Status Date: 03/30/2006
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 1/10/2007
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level III - Comprehensive Audit
Action Date: 1/10/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/10/2007
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/30/2006
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/22/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/22/2005
Response Action Outcome: Not reported

Chemicals:
Chemical: ETHANE, 1,2-DICHLORO-

WAYLAND CLEANERS (Continued) **S107405588**

Quantity: 170 parts per billion
Chemical: ETHENE, TETRACHLORO-
Quantity: 12000 parts per billion

Release Tracking Number/Current Status: 3-0025637 / RAONR
Primary ID: Not reported
Official City: WAYLAND
Notification: 02/02/2006
Category: TWO HR
Status Date: 04/03/2006
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 1/25/2007
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/30/2008
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 1/30/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/30/2008
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 10/28/2008
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 10/28/2008
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 10/31/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 11/16/2009
Response Action Outcome: Not reported

WAYLAND CLEANERS (Continued) **S107405588**

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/16/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 11/28/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 11/6/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/21/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 12/21/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 12/31/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/31/2007
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/14/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 2/15/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDD1A

WAYLAND CLEANERS (Continued) **S107405588**

Action Date: 2/16/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDD1A
Action Date: 2/2/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 2/2/2006
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/2/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/2/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/24/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 2/26/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 2/29/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/3/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/15/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1C Classification
Action Date: 4/15/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 4/2/2007
Response Action Outcome: Not reported

WAYLAND CLEANERS (Continued) **S107405588**

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 4/22/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 4/24/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 4/27/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 4/27/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 4/27/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/3/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 4/3/2006
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/3/2006
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 4/3/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 4/3/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 5/10/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT

WAYLAND CLEANERS (Continued) **S107405588**

Action Date: 5/11/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/11/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 5/29/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 5/3/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/3/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 5/6/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 5/6/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/6/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/8/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/1/2006
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/20/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 6/20/2006
Response Action Outcome: Not reported

WAYLAND CLEANERS (Continued) **S107405588**

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/20/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 6/20/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/27/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 6/3/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 7/19/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 7/20/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 7/25/2011
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/26/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 8/16/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 8/21/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 8/29/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT

WAYLAND CLEANERS (Continued) **S107405588**

Action Date: 9/21/2006
Response Action Outcome: Not reported

Chemicals:
Chemical: TETRACHLOROETHYLENE
Quantity: 5.4 parts per million
Chemical: PCE
Quantity: 130 UG/M3
Location Type: COMMERCIAL
Source: UNKNOWN

UIC:
RTN Number: 3-0025637
Permit Date: 11/08/2010
Actor Name: R&E REALTY TRUST
Air Sparging: No
Injection Well: Yes/Active
ReInjection Well: No
Latitude: 42.363317709999997
Longitude: -71.365076360000003

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28 **WAYLAND VILLAGE** **MA SHWS** **S113411773**
East **297-319 BOSTON POST RD** **MA RELEASE** **N/A**
1/2-1 **WAYLAND, MA 01778**
0.811 mi.
4282 ft.

Relative:
Lower

Actual:
118 ft.

SHWS:
Facility ID: 3-0031423
Source Type: Not reported
Release Town: WAYLAND
Notification Date: 03/13/2013
Category: 120 DY
Associated ID: Not reported
Current Status: DPS
Status Date: 05/01/2013
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Release:
Release Tracking Number/Current Status: 3-0031423 / DPS
Primary ID: Not reported
Official City: WAYLAND
Notification: 03/13/2013
Category: 120 DY
Status Date: 05/01/2013
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit

WAYLAND VILLAGE (Continued) **S113411773**

Action Date: 12/23/2015
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/13/2013
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/13/2013
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/13/2013
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 4/14/2014
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/4/2013
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/1/2013
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/1/2013
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/3/2013
Response Action Outcome: Not reported

Chemicals:
Chemical: VINYL CHLORIDE
Quantity: 73.3 micrograms per liter
Chemical: CIS-1,2-DICHLOROETHENE
Quantity: 910 micrograms per liter
Chemical: TETRACHLOROETHYLENE
Quantity: 1920 micrograms per liter
Chemical: TRICHLOROETHENE
Quantity: 669 micrograms per liter

E29
East
1/2-1
0.824 mi.
4352 ft.

Relative: Lower

Actual: 119 ft.

RTE 20
298 BOSTON POST RD
WAYLAND, MA 01778

Site 2 of 3 in cluster E

MA SHWS
MA RELEASE
MA DRYCLEANERS
MA ENF
MA HW GEN
MA UIC

S105810781
N/A

SHWS:

Facility ID:	3-0022753
Source Type:	UNKNOWN
Release Town:	WAYLAND
Notification Date:	06/09/2003
Category:	120 DY
Associated ID:	3-0022753
Current Status:	REMOPS
Status Date:	06/27/2011
Phase:	PHASE V
Response Action Outcome:	Not reported
Oil Or Haz Material:	Hazardous Material

Release:

Release Tracking Number/Current Status:	3-0022753 / REMOPS
Primary ID:	3-0022753
Official City:	WAYLAND
Notification:	06/09/2003
Category:	120 DY
Status Date:	06/27/2011
Phase:	PHASE V
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	1/10/2007
Response Action Outcome:	Not reported

Action Type:	An activity type that is related to an Audit
Action Status:	NON-A
Action Date:	1/12/2015
Response Action Outcome:	Not reported

Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	1/27/2014
Response Action Outcome:	Not reported

Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/27/2014
Response Action Outcome:	Not reported

Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/3/2012
Response Action Outcome:	Not reported

RTE 20 (Continued) **S105810781**

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 1/3/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 1/3/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 1/3/2013
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/20/2015
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: RMRINI
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/1/2008
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 3/16/2005
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 3/3/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 3/3/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 4/15/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 1C Classification

RTE 20 (Continued) **S105810781**

Action Date: 4/15/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/15/2004
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/19/2006
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 4/19/2006
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 4/20/2010
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Revised Statement or Transmittal Received
Action Date: 4/20/2010
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 4/20/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 4/22/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 4/27/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 4/27/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 4/3/2006
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/9/2003
Response Action Outcome: Not reported

RTE 20 (Continued) **S105810781**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/9/2003
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/1/2013
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 5/15/2014
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 5/29/2015
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Revised Statement or Transmittal Received
Action Date: 5/29/2015
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: RMRINT
Action Date: 5/6/2011
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 5/6/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Level I - Technical Screen Audit
Action Date: 6/2/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 6/27/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Work Started
Action Date: 6/27/2011
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 6/27/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date

RTE 20 (Continued) **S105810781**

Action Date: 6/3/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/2003
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 7/21/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 7/5/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 7/5/2013
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 8/12/2008
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/25/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 8/30/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 8/30/2012
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: REQACC
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: BWS20
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

RTE 20 (Continued) **S105810781**

Action Type: BWS03
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Chemicals:
Chemical: ETHENE , 1,2-DICHLORO-
Quantity: 73 milligrams per liter
Chemical: ETHENE, TRICHLORO-
Quantity: 58 milligrams per liter
Chemical: ETHENE, TETRACHLORO-
Quantity: 2210 milligrams per liter
Location Type: COMMERCIAL
Source: UNKNOWN

DRYCLEANERS:
Facility ID: 398645
Classification Type: Active use of Perc
Reg Obj Contact: Hyung K Kim
Reg Obj Mail Address: Not reported
Mail Town Name: Not reported
Mail Zip Code: Not reported
DEP Region Code: NE
Mailing State: Not reported
Reg Obj Phone: Not reported

ENFORCEMENT:
Region: NERO
DEP Region: NERO
DEP Program: 3P
DEP Bureau: BWSC
Program: Not reported
Program Id: 3-0022753
High Or Low Level Enforcement: LLE
FMF #: Not reported
Comptroller Billing Name: Not reported
Town Where Violation Occurred: Not reported
Date Executed: 07/21/2009
ENF #: NON-NE-09-3P007
Document Type: NON
AG Ref (Y/N): Not reported
Doc Archived (Y/N): Not reported
EJ Community (Y/N): Not reported
Regional Comment: Not reported
Final Payment Due Date: Not reported
ACOP $: Not reported
PAN $: Not reported
EMS (Y/N): Not reported
EMS$: Not reported
SEP (Y/N): Not reported
SEP $: Not reported
Demand $: Not reported
Suspended $: Not reported
Ownership: Commercially Owned

Region: NERO

RTE 20 (Continued) **S105810781**

DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0022753
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Wayland
Date Executed:	01/12/2015
ENF #:	NON-NE-14-3R048-A
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	N
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0022753
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Wayland
Date Executed:	08/07/2014
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	N
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO

RTE 20 (Continued) **S105810781**

DEP Program: 3A
DEP Bureau: BWSC
Program: BWSC
Program Id: 3-0022753
High Or Low Level Enforcement: LLE
FMF #: Not reported
Comptroller Billing Name: Not reported
Town Where Violation Occurred: Wayland
Date Executed: 08/07/2014
ENF #: Not reported
Document Type: IDL
AG Ref (Y/N): Not reported
Doc Archived (Y/N): Not reported
EJ Community (Y/N): N
Regional Comment: Not reported
Final Payment Due Date: Not reported
ACOP $: Not reported
PAN $: Not reported
EMS (Y/N): Not reported
EMS$: Not reported
SEP (Y/N): Not reported
SEP $: Not reported
Demand $: Not reported
Suspended $: Not reported
Ownership: Commercially Owned

Region: NERO
DEP Region: NERO
DEP Program: 3R
DEP Bureau: BWSC
Program: BWSC
Program Id: 3-0022753
High Or Low Level Enforcement: LLE
FMF #: Not reported
Comptroller Billing Name: Not reported
Town Where Violation Occurred: Wayland
Date Executed: 05/15/2014
ENF #: NON-NE-14-3R048
Document Type: NON
AG Ref (Y/N): Not reported
Doc Archived (Y/N): Not reported
EJ Community (Y/N): N
Regional Comment: Not reported
Final Payment Due Date: Not reported
ACOP $: Not reported
PAN $: Not reported
EMS (Y/N): Not reported
EMS$: Not reported
SEP (Y/N): Not reported
SEP $: Not reported
Demand $: Not reported
Suspended $: Not reported
Ownership: T

HW GEN:
EPA Id: MAD980669139
RCRA Generator Status: VSQG

RTE 20 (Continued) **S105810781**

State Generator Status: Not reported

UIC:
RTN Number: 3-0022753
Permit Date: 03/03/2015
Actor Name: WAYLEX REALTY CORP
Air Sparging: No
Injection Well: Yes/Inactive
ReInjection Well: No
Latitude: 42.363227629999997
Longitude: -71.364710259999995

E30 **SEPTAGE FACILITY** **MA SHWS** **S100829934**
East **BOSTON POST RD** **MA RELEASE** **N/A**
1/2-1 **WAYLAND, MA 01778**
0.839 mi.
4430 ft. **Site 3 of 3 in cluster E**

Relative:
Lower

Actual:
120 ft.

SHWS:
Facility ID: 3-0001724
Source Type: Not reported
Release Town: WAYLAND
Notification Date: 04/15/1987
Category: NONE
Associated ID: Not reported
Current Status: DEPNDS
Status Date: 07/23/1993
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Not reported

Release:
Release Tracking Number/Current Status: 3-0001724 / DEPNDS
Primary ID: Not reported
Official City: WAYLAND
Notification: 04/15/1987
Category: NONE
Status Date: 07/23/1993
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 4/15/1987
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: DEPNDS
Action Date: 7/23/1993
Response Action Outcome: Not reported

SEPTAGE FACILITY (Continued) **S100829934**

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

31
West
1/2-1
0.912 mi.
4816 ft.

NO LOCATION AID
BOSTON POST ROAD AT LANDHAM RD
SUDBURY, MA 01776

MA SHWS **S108962861**
MA RELEASE **N/A**

Relative:
Higher

Actual:
150 ft.

SHWS:
Facility ID: 3-0027224
Source Type: UNKNOWN
Release Town: SUDBURY
Notification Date: 10/31/2007
Category: 120 DY
Associated ID: Not reported
Current Status: URAM
Status Date: 11/07/2007
Phase: Not reported
Response Action Outcome: Not reported
Oil Or Haz Material: Oil

Release:
Release Tracking Number/Current Status: 3-0027224 / URAM
Primary ID: Not reported
Official City: SUDBURY
Notification: 10/31/2007
Category: 120 DY
Status Date: 11/07/2007
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/31/2007
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Notice of Intent to Conduct a URAM
Action Date: 10/31/2007
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 11/5/2007
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Notification of URAM Received
Action Date: 11/7/2007
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S108962861**

Action Type: Utility-related Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 3/5/2008
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Completion Statement Received
Action Date: 3/5/2008
Response Action Outcome: Not reported

Chemicals:
Chemical: GASOLINE
Quantity: Not reported
Location Type: RIGHTOFWAY
Location Type: ROADWAY
Source: UNKNOWN

32
West
1/2-1
0.985 mi.
5199 ft.

SUDBURY AUTOMOTIVE
209 BOSTON POST RD
SUDBURY, MA 01776

MA SHWS **U002007836**
MA LUST **N/A**
MA UST
MA RELEASE
MA HW GEN

Relative:
Higher

Actual:
155 ft.

SHWS:
Facility ID: 3-0033240
Source Type: TANK
Release Town: SUDBURY
Notification Date: 11/03/2015
Category: 72 HR
Associated ID: Not reported
Current Status: TIERII
Status Date: 11/08/2016
Phase: PHASE III
Response Action Outcome: Not reported
Oil Or Haz Material: Oil

Facility ID: 3-0033240
Source Type: UNKNOWN
Release Town: SUDBURY
Notification Date: 11/03/2015
Category: 72 HR
Associated ID: Not reported
Current Status: TIERII
Status Date: 11/08/2016
Phase: PHASE III
Response Action Outcome: Not reported
Oil Or Haz Material: Oil

Facility ID: 3-0033240
Source Type: FUELTANK
Release Town: SUDBURY
Notification Date: 11/03/2015
Category: 72 HR
Associated ID: Not reported
Current Status: TIERII
Status Date: 11/08/2016
Phase: PHASE III

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil
Facility ID:	3-0033240
Source Type:	PIPE
Release Town:	SUDBURY
Notification Date:	11/03/2015
Category:	72 HR
Associated ID:	Not reported
Current Status:	TIERII
Status Date:	11/08/2016
Phase:	PHASE III
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil

LUST:

Facility:

Release Tracking Number/Current Status:	3-0033240 / TIERII
Status Date:	11/08/2016
Source Type:	UST
Release Town:	SUDBURY
Notification Date:	11/03/2015
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE III
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	USTOTHER
Source:	UNKNOWN
Source:	FUELTANK
Source:	PIPE
Source:	TANK
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE VOCS
Quantity:	1453 parts per million
Chemical:	GASOLINE
Quantity:	1000 parts per million

Actions:

Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/12/2016
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/5/2016
Response Action Outcome:	Not reported

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/5/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 1/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 1/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/13/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/2/2016
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/27/2015
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/3/2015
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/3/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Date: 11/9/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 12/12/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 12/16/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 12/21/2017
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/3/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 3/8/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 5/24/2017
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/22/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/24/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 6/29/2016
Response Action Outcome: Not reported

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 6/29/2016
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 6/4/2018
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/11/2018
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 8/2/2018
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Revised Statement or Transmittal Received
Action Date: 8/30/2017
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/20/2016
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/22/2016
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 9/7/2016
Response Action Outcome: Not reported

Facility:
Release Tracking Number/Current Status: 3-0033240 / TIERII
Status Date: 11/08/2016
Source Type: USTOTHER
Release Town: SUDBURY
Notification Date: 11/03/2015
Category: 72 HR
Associated ID: Not reported
Phase: PHASE III
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: USTOTHER
Source: UNKNOWN
Source: FUELTANK

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Source: PIPE
Source: TANK
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE VOCS
Quantity: 1453 parts per million
Chemical: GASOLINE
Quantity: 1000 parts per million

Actions:
Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 1/12/2016
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/5/2016
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/5/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 1/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 1/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/13/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/2/2016
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/27/2015
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Date: 11/3/2015
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/3/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/9/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 12/12/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 12/16/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 12/21/2017
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/3/2016
Response Action Outcome: Not reported

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 3/8/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 5/24/2017
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/22/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/24/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 6/29/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 6/29/2016
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 6/4/2018
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/11/2018
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 8/2/2018
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Revised Statement or Transmittal Received
Action Date: 8/30/2017
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/20/2016
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Date: 9/22/2016
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 9/7/2016
Response Action Outcome: Not reported

UST:

Facility:
Facility ID: 11003
Owner Id: 6417
Owner: DELTA LAND TRUST OF SUDBURY
Owner Address: 172 BISHOPS FOREST DR
Owner City,St,Zip: WALTHAM, MA 02452
Telephone: 9784437374
Description: Retail Motor Vehicle Fuel
Facility address 2: Not reported
Owner address 2: Not reported
Latitude: 42.36097
Longitude: -71.40234
Contact name: Patrick Bond
Contact address1: 209 Boston Post Road
Contact address2: Not reported
Contact city: Sudbury
Contact state: MA
Contact zip: 01776
Contact email: pbond2010@verizon.net
Update: 2016-05-11 00:00:00
Update by: Not reported
Fac status: OPEN

Tank ID: 1
Tank Status: Tank Removed
Status Date: 11/03/2015
Date Installed: 05/25/1976
Capacity: 8000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Continuous Interstitial Space Monitoring
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

Tank ID: 2
Tank Status: Tank Removed
Status Date: 11/03/2015
Date Installed: 05/25/1966
Capacity: 5000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

Tank ID: 3
Tank Status: Tank Removed
Status Date: 11/03/2015
Date Installed: 05/25/1966
Capacity: 4000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Continuous Interstitial Space Monitoring
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Not reported

Tank ID: 4
Tank Status: Tank Removed
Status Date: 01/01/2002
Date Installed: 05/25/1966
Capacity: 500.00000
Contents: Waste Oil
Tank Usage: Not reported
Tank Leak Detection: In-Tank Monitoring System
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Single-walled metal tank (cathodic protection required)
Pipe construct: Single-walled metal (Corrosion protection required)
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Field Constructed Impressed Current System
Leak corrosion type: Field Constructed Impressed Current System

Tank ID: 5
Tank Status: In Use
Status Date: 01/22/2016
Date Installed: 11/20/2015
Capacity: 10000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: Continuous Interstitial Monitoring

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Pipe Leak Detection: Continuous Interstitial Space Monitoring
Latitude: 42.36097
Longitude: -71.40234
Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Pressurized piping system with electronic automatic line leak detection
Number of compartment: Not reported
Pipe install date: 11/20/2015
Pipe leak install date: 11/20/2015
Submersible sump: Y
Submersible sump install date: 11/20/2015
Turbine sump: Y
Turbine sump sensor: Y
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: 11/20/2015
Spill bucket sensor: N
Overfill protect install: 06/07/2016
Overfill protect type: High level alarm
Automatic line leak detect: 11/20/2015
Tank corrosion type: Not reported
Leak corrosion type: Not reported

Tank ID: 6
Tank Status: In Use
Status Date: 01/22/2016
Date Installed: 11/20/2015
Capacity: 4000.00000
Contents: Gasoline
Tank Usage: Motor Vehi
Tank Leak Detection: Continuous Interstitial Monitoring
Pipe Leak Detection: Continuous Interstitial Space Monitoring
Latitude: 42.36097
Longitude: -71.40234
Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)
Ptype: Pressurized piping system with electronic automatic line leak detection
Number of compartment: Not reported
Pipe install date: 11/20/2015
Pipe leak install date: 11/20/2015
Submersible sump: Y
Submersible sump install date: 11/20/2015
Turbine sump: Y
Turbine sump sensor: Y
Intermediate sump: Y
Intermediate sump sensor: Y
Spill bucket installed date: 11/20/2015
Spill bucket sensor: N
Overfill protect install: 06/07/2016
Overfill protect type: High level alarm
Automatic line leak detect: 11/20/2015
Tank corrosion type: Not reported
Leak corrosion type: Not reported

Release:
Release Tracking Number/Current Status: 3-0033240 / TIERII

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Primary ID:	Not reported
Official City:	SUDBURY
Notification:	11/03/2015
Category:	72 HR
Status Date:	11/08/2016
Phase:	PHASE III
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/12/2016
Response Action Outcome:	Not reported

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/5/2016
Response Action Outcome:	Not reported

Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/5/2016
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Imminent Hazard Evaluation Received
Action Date:	1/8/2016
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	1/8/2016
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	11/13/2015
Response Action Outcome:	Not reported

Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	11/2/2016
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	11/27/2015
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/3/2015
Response Action Outcome:	Not reported

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/3/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 11/8/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/9/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 12/12/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 12/15/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 12/16/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 12/21/2017
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/3/2016
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Date: 3/8/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 5/24/2017
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/22/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 6/24/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 6/29/2016
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 6/29/2016
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 6/4/2018
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/11/2018
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 8/2/2018
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Revised Statement or Transmittal Received
Action Date: 8/30/2017
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/20/2016
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/22/2016
Response Action Outcome: Not reported

SUDBURY AUTOMOTIVE (Continued) **U002007836**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 9/7/2016
Response Action Outcome: Not reported

Chemicals:
Chemical: GASOLINE VOCS
Quantity: 1453 parts per million
Chemical: GASOLINE
Quantity: 1000 parts per million
Location Type: COMMERCIAL
Source: USTOTHER
Source: UNKNOWN
Source: FUELTANK
Source: PIPE
Source: TANK
Source: UST

HW GEN:
EPA Id: MAV000011143
RCRA Generator Status: Not reported
State Generator Status: SQG-MA

Count: 5 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SUDBURY	S109489446	INTERSECTION	BOSTON POST RD	01776	MA SHWS, MA RELEASE
SUDBURY	S102687468	CONCORD ST	BOSTON POST RD (RTE 20)	01776	MA SHWS, MA RELEASE
SUDBURY	1007444497	SAND HILL SANITARY LANDFILL	OFF BOSTON POST ROAD ROUTE 20		ODI
WAYLAND	S105810591	NO LOCATION AID	LK COCHITUATE	01778	MA SHWS, MA RELEASE
WAYLAND	S114965536	MUNICIPAL ROADWAY	NEARBY 44 RIVER ROAD		MA SHWS, MA RELEASE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 02/04/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 28

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Site Transition List

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

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 01/09/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

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

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 617-292-5868
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 07/05/2018
Date Made Active in Reports: 08/14/2018
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 617-292-5989
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 01/09/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites
Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 01/09/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 33
Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/08/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 25
Source: Department of Fire Services, Office of the Public Safety
Telephone: 617-556-1035
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

AST 2: Aboveground Storage Tanks
Aboveground storage tanks

Date of Government Version: 01/15/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 25
Source: Department of Fire Services
Telephone: 978-567-3181
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 12/20/2018
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 53
Source: Department of Public Safety
Telephone: 617-556-1035
Last EDR Contact: 12/20/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: No Update Planned

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation

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

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 01/09/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 68

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Annually

BROWNFIELDS 2: Potential Brownfields Listing
A listing of potential brownfields site locations in the state.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 50
Source: Department of Environmental Protection
Telephone: 617-556-1007
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/19/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Information Listing
A listing of environmental liens.

Date of Government Version: 03/07/2018
Date Data Arrived at EDR: 03/09/2018
Date Made Active in Reports: 06/21/2018
Number of Days to Update: 104
Source: Department of Environmental Protection
Telephone: 617-292-5628
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 01/09/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/09/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993
Date Data Arrived at EDR: 12/03/2003
Date Made Active in Reports: 12/31/2003
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 617-292-5720
Last EDR Contact: 12/03/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 36

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/05/2013
Number of Days to Update: 61

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 04/03/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2019
Date Data Arrived at EDR: 02/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/11/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/21/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/03/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

AIRS: Permitted Facilities Listing
A listing of Air Quality permit applications.

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing
Asbestos sites

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 12/20/2018
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 617-292-5982
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities
A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 12/27/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases
A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/03/2011
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 50

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 59

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 12

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 11/13/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 52

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Semi-Annually

MERCURY: Mercury Product Recyling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 617-292-5632
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/17/2018
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 508-767-2781
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/17/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 43

Source: Massachusetts Emergency Management Agency
Telephone: 508-820-2019
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

TSD: TSD Facility
List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/26/2018
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 617-292-5580
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

UIC: Underground Injection Control Listing
A list of UIC registration data and their locations

Date of Government Version: 09/06/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 113

Source: Department of Environmental Protection
Telephone: 617-566-1172
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/19/2019
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

Areas of Critical Environmental Concern Datalayer: The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

APPENDIX J:

LABORATORY ANALYTICAL REPORTS

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 19, 2019

Kristen Sarson
Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114

Project Location: Wayland, MA
Client Job Number:
Project Number: 46047
Laboratory Work Order Number: 19D0736

Enclosed are results of analyses for samples received by the laboratory on April 12, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

Table of Contents (continued)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/19/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19D0736

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-201	19D0736-01	Soil		-	MA M-CT007/CT PH-0618/NY11301
				SM 2540G	
				SW-846 6010D	
V-202	19D0736-02	Soil		-	MA M-CT007/CT PH-0618/NY11301
				SM 2540G	
				SW-846 6010D	
V-203	19D0736-03	Soil		-	MA M-CT007/CT PH-0618/NY11301
				SM 2540G	
				SW-846 6010D	
V-204	19D0736-04	Soil		-	MA M-CT007/CT PH-0618/NY11301
				SM 2540G	
				SW-846 6010D	
V-205	19D0736-05	Soil		-	MA M-CT007/CT PH-0618/NY11301
				SM 2540G	
				SW-846 6010D	
V-206	19D0736-06	Soil		-	MA M-CT007/CT PH-0618/NY11301
				SM 2540G	
				SW-846 6010D	
Firing Range	19D0736-07	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

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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 a select list of metals was requested and reported.

con-test® ANALYTICAL LABORATORY
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SW-846 6010D

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Lead
19D0736-01[V-201], B228378-MS1

SW-846 8082A

Qualifications:

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

19D0736-07[Firing Range]

SW-846 8260C

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
B228262-BS1, B228262-BSD1

Carbon Disulfide
B228262-BS1, B228262-BSD1

Chloroethane
B228262-BS1, B228262-BSD1

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.

Analyte & Samples(s) Qualified:

Trichlorofluoromethane (Freon 11)
B228262-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
19D0736-07[Firing Range], B228262-BLK1, B228262-BS1, B228262-BSD1, S034704-CCV1

1,4-Dioxane (SIM)
B228262-BS1, B228262-BSD1, S034704-CCV1

2,2-Dichloropropane
19D0736-07[Firing Range], B228262-BLK1, B228262-BS1, B228262-BSD1, S034704-CCV1

Dichlorodifluoromethane (Freon 12
19D0736-07[Firing Range], B228262-BLK1, B228262-BS1, B228262-BSD1, S034704-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane
19D0736-07[Firing Range], B228262-BLK1, B228262-BS1, B228262-BSD1

V-20

Continuing calibration verification (CCV) 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:

Diethyl Ether
B228262-BS1, B228262-BSD1, S034704-CCV1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

19D0736-07[Firing Range], B228262-BLK1, B228262-BS1, B228262-BSD1, S034704-CCV1

SW-846 8270D

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2-Methylphenol

19D0736-07[Firing Range], S034774-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

19D0736-07[Firing Range], S034774-CCV1

Butylbenzylphthalate

19D0736-07[Firing Range], S034774-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

B228235-BLK1, B228235-BS1, B228235-BSD1, S034781-CCV1

Aniline

B228235-BLK1, B228235-BS1, B228235-BSD1, S034781-CCV1

SW-846 9045C

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

19D0736-07[Firing Range]

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SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

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 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.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-201 | Sampled: 4/11/2019 13:30

Sample ID: 19D0736-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	41	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:13	EJB
Copper	4200	1.7	mg/Kg dry	5		SW-846 6010D	4/17/19	4/19/19 9:56	EJB
Lead	4000	2.6	mg/Kg dry	5		SW-846 6010D	4/17/19	4/19/19 9:56	EJB
Zinc	18	0.69	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:13	EJB

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-201
Sampled: 4/11/2019 13:30

Sample ID: 19D0736-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	4/14/19	4/15/19 12:39	CJT

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-201
Sampled: 4/11/2019 13:30

Sample ID: 19D0736-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	180	0.050	mg/L	5	MS-19	SW-846 6010D	4/16/19	4/17/19 16:33	EJB

con-test® ANALYTICAL LABORATORY
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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-201
Sampled: 4/11/2019 13:30

Sample ID: 19D0736-01

Sample Matrix: Soil

Tungsten 200.7

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Tungsten 200.7	<0.4	0.4	mg/Kg	1		Tungsten 200.7		4/17/19 0:00	PEL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-202 | Sampled: 4/11/2019 13:35

Sample ID: 19D0736-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	140	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:18	EJB
Copper	4200	1.7	mg/Kg dry	5		SW-846 6010D	4/17/19	4/19/19 10:01	EJB
Lead	13000	2.6	mg/Kg dry	5		SW-846 6010D	4/17/19	4/19/19 10:01	EJB
Zinc	29	0.68	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:18	EJB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-202
Sampled: 4/11/2019 13:35

Sample ID: 19D0736-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	4/14/19	4/15/19 12:39	CJT

con-test® ANALYTICAL LABORATORY
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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-202
Sampled: 4/11/2019 13:35

Sample ID: 19D0736-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	360	0.10	mg/L	10		SW-846 6010D	4/16/19	4/17/19 16:39	EJB

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-202
Sampled: 4/11/2019 13:35

Sample ID: 19D0736-02

Sample Matrix: Soil

Tungsten 200.7

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Tungsten 200.7	14	0.3	mg/Kg	1		Tungsten 200.7		4/17/19 0:00	PEL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-203 | Sampled: 4/11/2019 13:40

Sample ID: 19D0736-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:23	EJB
Copper	120	0.34	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:23	EJB
Lead	46	0.52	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:23	EJB
Zinc	27	0.69	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:23	EJB

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-203
Sampled: 4/11/2019 13:40

Sample ID: 19D0736-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.3		% Wt	1		SM 2540G	4/14/19	4/15/19 12:39	CJT

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-203
Sampled: 4/11/2019 13:40

Sample ID: 19D0736-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	7.5	0.010	mg/L	1		SW-846 6010D	4/16/19	4/17/19 16:46	EJB

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-203
Sampled: 4/11/2019 13:40

Sample ID: 19D0736-03

Sample Matrix: Soil

Tungsten 200.7

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Tungsten 200.7	5	0.3	mg/Kg	1		Tungsten 200.7		4/17/19 0:00	PEL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-204 | Sampled: 4/11/2019 13:45

Sample ID: 19D0736-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	3.3	1.8	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:39	EJB
Copper	74	0.36	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:39	EJB
Lead	290	0.54	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:39	EJB
Zinc	37	0.72	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:39	EJB

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-204 | Sampled: 4/11/2019 13:45

Sample ID: 19D0736-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	4/14/19	4/15/19 12:39	CJT

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-204
Sampled: 4/11/2019 13:45

Sample ID: 19D0736-04

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	8.3	0.010	mg/L	1		SW-846 6010D	4/16/19	4/17/19 16:53	EJB

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-204
Sampled: 4/11/2019 13:45

Sample ID: 19D0736-04

Sample Matrix: Soil

Tungsten 200.7

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Tungsten 200.7	<0.4	0.4	mg/Kg	1		Tungsten 200.7		4/17/19 0:00	PEL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-205 | Sampled: 4/11/2019 13:50

Sample ID: 19D0736-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	5.1	1.8	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:44	EJB
Copper	1000	0.35	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:44	EJB
Lead	630	0.53	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:44	EJB
Zinc	23	0.71	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:44	EJB

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-205 | Sampled: 4/11/2019 13:50

Sample ID: 19D0736-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	4/14/19	4/15/19 12:40	CJT

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-205
Sampled: 4/11/2019 13:50

Sample ID: 19D0736-05

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	48	0.010	mg/L	1		SW-846 6010D	4/16/19	4/17/19 17:00	EJB

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-205
Sampled: 4/11/2019 13:50

Sample ID: 19D0736-05

Sample Matrix: Soil

Tungsten 200.7

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Tungsten 200.7	<0.4	0.4	mg/Kg	1		Tungsten 200.7		4/17/19 0:00	PEL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-206 | Sampled: 4/11/2019 13:55

Sample ID: 19D0736-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	140	1.8	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:49	EJB
Copper	7100	3.5	mg/Kg dry	10		SW-846 6010D	4/17/19	4/19/19 10:06	EJB
Lead	24000	5.3	mg/Kg dry	10		SW-846 6010D	4/17/19	4/19/19 10:06	EJB
Zinc	69	0.70	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:49	EJB

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-206 | Sampled: 4/11/2019 13:55

Sample ID: 19D0736-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	4/14/19	4/15/19 12:40	CJT

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-206
Sampled: 4/11/2019 13:55

Sample ID: 19D0736-06

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	830	0.10	mg/L	10		SW-846 6010D	4/16/19	4/17/19 17:07	EJB

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Project Location: Wayland, MA
Sample Description:
Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: V-206
Sampled: 4/11/2019 13:55

Sample ID: 19D0736-06

Sample Matrix: Soil

Tungsten 200.7

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Tungsten 200.7	<0.3	0.3	mg/Kg	1		Tungsten 200.7		4/17/19 0:00	PEL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Bromomethane	ND	0.0083	mg/Kg dry	1	V-34	SW-846 8260C	4/15/19	4/15/19 11:29	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Carbon Disulfide	ND	0.0050	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Chlorodibromomethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Chloroethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Chloromethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0033	mg/Kg dry	1	V-05	SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0083	mg/Kg dry	1	V-05	SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,3-Dichloropropane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1	V-05	SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1-Dichloropropene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
cis-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
trans-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Diethyl Ether	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Diisopropyl Ether (DIPE)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,4-Dioxane	ND	0.17	mg/Kg dry	1	V-16	SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Methylene Chloride	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Naphthalene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Tetrahydrofuran	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2,3-Trichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
Vinyl Chloride	ND	0.0083	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	4/15/19	4/15/19 11:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		4/15/19 11:29
Toluene-d8	101	70-130		4/15/19 11:29
4-Bromofluorobenzene	98.2	70-130		4/15/19 11:29

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1	V-06	SW-846 8270D	4/15/19	4/17/19 13:58	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1	V-06	SW-846 8270D	4/15/19	4/17/19 13:58	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1	V-05	SW-846 8270D	4/15/19	4/17/19 13:58	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/15/19	4/17/19 13:58	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.6	30-130		4/17/19 13:58
Phenol-d6	78.1	30-130		4/17/19 13:58
Nitrobenzene-d5	77.0	30-130		4/17/19 13:58
2-Fluorobiphenyl	83.8	30-130		4/17/19 13:58
2,4,6-Tribromophenol	64.4	30-130		4/17/19 13:58
p-Terphenyl-d14	95.5	30-130		4/17/19 13:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/15/19	4/16/19 17:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		4/16/19 17:02
Decachlorobiphenyl [2]	97.5	30-150		4/16/19 17:02
Tetrachloro-m-xylene [1]	94.6	30-150		4/16/19 17:02
Tetrachloro-m-xylene [2]	99.9	30-150		4/16/19 17:02

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	27	8.6	mg/Kg dry	1		SW-846 8100 Modified	4/15/19	4/19/19 5:15	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	82.1	40-140		4/19/19 5:15

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	290	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Arsenic	9.2	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Barium	13	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Cadmium	0.40	0.17	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Chromium	4.3	0.33	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Lead	24000	5.0	mg/Kg dry	10		SW-846 6010D	4/17/19	4/19/19 10:11	EJB
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	4/18/19	4/19/19 12:23	AJL
Nickel	3.6	0.33	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Silver	1.2	0.33	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Vanadium	7.7	0.67	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB
Zinc	46	0.67	mg/Kg dry	1		SW-846 6010D	4/17/19	4/18/19 18:55	EJB

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0736

Date Received: 4/12/2019

Field Sample #: Firing Range | Sampled: 4/11/2019 14:00

Sample ID: 19D0736-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.4		% Wt	1		SM 2540G	4/14/19	4/15/19 12:40	CJT
Ignitability	Absent		present/absent	1		SW-846 1030	4/18/19	4/18/19 16:16	KMV
pH @21.2°C	6.6		pH Units	1	H-03	SW-846 9045C	4/13/19	4/13/19 14:54	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	4/17/19	4/18/19 13:15	KMV
Reactive Sulfide	20	20	mg/Kg	1		SW-846 9030A	4/17/19	4/18/19 12:51	KMV
Specific conductance	2.0	2.0	µmhos/cm	1		SM21-22 2510B Modified	4/18/19	4/18/19 16:30	EC

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
19D0736-01 [V-201]	B228183	04/14/19
19D0736-02 [V-202]	B228183	04/14/19
19D0736-03 [V-203]	B228183	04/14/19
19D0736-04 [V-204]	B228183	04/14/19
19D0736-05 [V-205]	B228183	04/14/19
19D0736-06 [V-206]	B228183	04/14/19
19D0736-07 [Firing Range]	B228183	04/14/19

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
19D0736-07 [Firing Range]	B228560	1.00	04/18/19

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
19D0736-07 [Firing Range]	B228597	50.0	04/18/19

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-01 [V-201]	B228464	1.55	50.0	04/17/19
19D0736-02 [V-202]	B228464	1.54	50.0	04/17/19
19D0736-03 [V-203]	B228464	1.53	50.0	04/17/19
19D0736-04 [V-204]	B228464	1.50	50.0	04/17/19
19D0736-05 [V-205]	B228464	1.53	50.0	04/17/19
19D0736-06 [V-206]	B228464	1.54	50.0	04/17/19
19D0736-07 [Firing Range]	B228464	1.55	50.0	04/17/19

Prep Method: SW-846 3010A-SW-846 6010D **Leachates were extracted on 4/15/2019 per SW-846 1311 in Batch B228239**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0736-01 [V-201]	B228378	50.0	50.0	04/16/19
19D0736-02 [V-202]	B228378	50.0	50.0	04/16/19
19D0736-03 [V-203]	B228378	50.0	50.0	04/16/19
19D0736-04 [V-204]	B228378	50.0	50.0	04/16/19
19D0736-05 [V-205]	B228378	50.0	50.0	04/16/19
19D0736-06 [V-206]	B228378	50.0	50.0	04/16/19

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228326	0.630	50.0	04/18/19

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228231	10.3	10.0	04/15/19

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228233	30.0	1.00	04/15/19

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228262	6.25	10.0	04/15/19

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228235	30.4	1.00	04/15/19

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228496	25.5	250	04/17/19

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19D0736-07 [Firing Range]	B228498	25.5	250	04/17/19

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
19D0736-07 [Firing Range]	B228169	20.0	04/13/19

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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 B228262 - SW-846 5035										
Blank (B228262-BLK1)				Prepared: 04/05/19 Analyzed: 04/15/19						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							V-05
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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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 B228262 - SW-846 5035												
Blank (B228262-BLK1)				Prepared: 04/05/19 Analyzed: 04/15/19								
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Tetrahydrofuran	ND	0.010	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0486*		mg/Kg wet	0.0500		97.2		70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/Kg wet	0.0500		99.4		70-130				
LCS (B228262-BS1)				Prepared: 04/05/19 Analyzed: 04/15/19								
Acetone	0.226	0.10	mg/Kg wet	0.200		113		40-160				†
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.3		70-130				
Benzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8		70-130				
Bromobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7		70-130				
Bromochloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130				
Bromoform	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130				
Bromomethane	0.0194	0.010	mg/Kg wet	0.0200		97.0		40-160			V-34	†
2-Butanone (MEK)	0.162	0.040	mg/Kg wet	0.200		80.9		40-160				†
n-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130				
tert-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
tert-Butyl Ethyl Ether (TBEE)	0.0179	0.0010	mg/Kg wet	0.0200		89.4		70-130				
Carbon Disulfide	0.0317	0.0060	mg/Kg wet	0.0200		**159**	*	70-130			L-02	
Carbon Tetrachloride	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130				
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130				
Chlorodibromomethane	0.0213	0.0010	mg/Kg wet	0.0200		106		70-130				
Chloroethane	0.0263	0.010	mg/Kg wet	0.0200		**132**	*	70-130			L-02	
Chloroform	0.0203	0.0040	mg/Kg wet	0.0200		101		70-130				
Chloromethane	0.0221	0.010	mg/Kg wet	0.0200		111		40-160				†
2-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		92.8		70-130				
4-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0153	0.0020	mg/Kg wet	0.0200		76.3		70-130			V-05	
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2		70-130				
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,2-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130				
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		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 B228262 - SW-846 5035												
LCS (B228262-BS1)				Prepared: 04/05/19 Analyzed: 04/15/19								
Dichlorodifluoromethane (Freon 12)	0.0188	0.010	mg/Kg wet	0.0200		93.9		40-160			V-05	†
1,1-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
1,2-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1		70-130				
1,1-Dichloroethylene	0.0284	0.0040	mg/Kg wet	0.0200		**142**	*	70-130			L-02	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
trans-1,2-Dichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130				
1,3-Dichloropropane	0.0182	0.0010	mg/Kg wet	0.0200		91.0		70-130				
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130			V-05	
1,1-Dichloropropene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
cis-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.4		70-130				
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.5		70-130				
Diethyl Ether	0.0254	0.010	mg/Kg wet	0.0200		127		70-130			V-20	
Diisopropyl Ether (DIPE)	0.0194	0.0010	mg/Kg wet	0.0200		96.8		70-130				
1,4-Dioxane	0.150	0.10	mg/Kg wet	0.200		75.2		40-160			V-16	†
1,4-Dioxane (SIM)	0.159	0.040	mg/Kg wet	0.200		79.4		40-160			V-05	†
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-130				
Hexachlorobutadiene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
2-Hexanone (MBK)	0.173	0.020	mg/Kg wet	0.200		86.3		40-160				†
Isopropylbenzene (Cumene)	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130				
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0190	0.0040	mg/Kg wet	0.0200		95.1		70-130				
Methylene Chloride	0.0203	0.010	mg/Kg wet	0.0200		102		70-130				
4-Methyl-2-pentanone (MIBK)	0.178	0.020	mg/Kg wet	0.200		89.1		40-160				†
Naphthalene	0.0184	0.0040	mg/Kg wet	0.0200		91.8		70-130				
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
Styrene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130				
1,1,2,2-Tetrachloroethane	0.0183	0.0010	mg/Kg wet	0.0200		91.4		70-130				
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
Tetrahydrofuran	0.0182	0.010	mg/Kg wet	0.0200		90.9		70-130				
Toluene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,2,3-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130				
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9		70-130				
1,1,1-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.8		70-130				
1,1,2-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.3		70-130				
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
Trichlorofluoromethane (Freon 11)	0.0258	0.010	mg/Kg wet	0.0200		129		70-130				
1,2,3-Trichloropropane	0.0175	0.0020	mg/Kg wet	0.0200		87.4		70-130				
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130				
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7		70-130				
Vinyl Chloride	0.0242	0.010	mg/Kg wet	0.0200		121		70-130				
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.5		70-130				
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.5		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0478*		mg/Kg wet	0.0500		95.6		70-130				
Surrogate: Toluene-d8	*0.0522*		mg/Kg wet	0.0500		104		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/Kg wet	0.0500		99.6		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 B228262 - SW-846 5035												
LCS Dup (B228262-BSD1)				Prepared: 04/05/19 Analyzed: 04/15/19								
Acetone	0.230	0.10	mg/Kg wet	0.200		115		40-160	1.90	20		†
tert-Amyl Methyl Ether (TAME)	0.0201	0.0010	mg/Kg wet	0.0200		100		70-130	2.11	20		
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130	1.01	20		
Bromobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130	0.107	20		
Bromochloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	1.25	20		
Bromodichloromethane	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	4.05	20		
Bromoform	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130	1.16	20		
Bromomethane	0.0226	0.010	mg/Kg wet	0.0200		113		40-160	15.4	20	V-34	†
2-Butanone (MEK)	0.165	0.040	mg/Kg wet	0.200		82.5		40-160	1.97	20		†
n-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	1.06	20		
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	0.925	20		
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	3.54	20		
tert-Butyl Ethyl Ether (TBEE)	0.0187	0.0010	mg/Kg wet	0.0200		93.7		70-130	4.70	20		
Carbon Disulfide	0.0317	0.0060	mg/Kg wet	0.0200		**158**	*	70-130	0.252	20	L-02	
Carbon Tetrachloride	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	2.77	20		
Chlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	1.47	20		
Chlorodibromomethane	0.0230	0.0010	mg/Kg wet	0.0200		115		70-130	7.86	20		
Chloroethane	0.0284	0.010	mg/Kg wet	0.0200		**142**	*	70-130	7.60	20	L-02	
Chloroform	0.0203	0.0040	mg/Kg wet	0.0200		102		70-130	0.197	20		
Chloromethane	0.0227	0.010	mg/Kg wet	0.0200		113		40-160	2.41	20		†
2-Chlorotoluene	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130	2.34	20		
4-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130	1.91	20		
1,2-Dibromo-3-chloropropane (DBCP)	0.0165	0.0020	mg/Kg wet	0.0200		82.7		70-130	8.05	20	V-05	
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		96.8		70-130	1.44	20		
Dibromomethane	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	0.197	20		
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	1.05	20		
1,3-Dichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		111		70-130	3.84	20		
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	3.09	20		
Dichlorodifluoromethane (Freon 12)	0.0199	0.010	mg/Kg wet	0.0200		99.5		40-160	5.79	20	V-05	†
1,1-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	0.873	20		
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	1.42	20		
1,1-Dichloroethylene	0.0285	0.0040	mg/Kg wet	0.0200		**142**	*	70-130	0.352	20	L-02	
cis-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	0.853	20		
trans-1,2-Dichloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	3.84	20		
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130	0.00	20		
1,3-Dichloropropane	0.0195	0.0010	mg/Kg wet	0.0200		97.6		70-130	7.00	20		
2,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.3		70-130	1.33	20	V-05	
1,1-Dichloropropene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	0.299	20		
cis-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104		70-130	4.91	20		
trans-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.4		70-130	3.12	20		
Diethyl Ether	0.0252	0.010	mg/Kg wet	0.0200		126		70-130	0.789	20	V-20	
Diisopropyl Ether (DIPE)	0.0197	0.0010	mg/Kg wet	0.0200		98.7		70-130	1.94	20		
1,4-Dioxane	0.138	0.10	mg/Kg wet	0.200		69.0		40-160	8.68	20	L-14, V-16	†
1,4-Dioxane (SIM)	0.158	0.040	mg/Kg wet	0.200		79.2		40-160	0.202	20	V-05	† ‡
Ethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	4.97	20		
Hexachlorobutadiene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	0.488	20		
2-Hexanone (MBK)	0.166	0.020	mg/Kg wet	0.200		83.2		40-160	3.61	20		†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	4.06	20		
p-Isopropyltoluene (p-Cymene)	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	2.88	20		
Methyl tert-Butyl Ether (MTBE)	0.0189	0.0040	mg/Kg wet	0.0200		94.6		70-130	0.527	20		
Methylene Chloride	0.0203	0.010	mg/Kg wet	0.0200		101		70-130	0.295	20		
4-Methyl-2-pentanone (MIBK)	0.175	0.020	mg/Kg wet	0.200		87.4		40-160	1.90	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 B228262 - SW-846 5035											
LCS Dup (B228262-BSD1)				Prepared: 04/05/19 Analyzed: 04/15/19							
Naphthalene	0.0178	0.0040	mg/Kg wet	0.0200		88.9		70-130	3.21	20	
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	1.14	20	
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.58	20	
1,1,1,2-Tetrachloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130	8.02	20	
1,1,2,2-Tetrachloroethane	0.0174	0.0010	mg/Kg wet	0.0200		87.2		70-130	4.70	20	
Tetrachloroethylene	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130	6.69	20	
Tetrahydrofuran	0.0177	0.010	mg/Kg wet	0.0200		88.4		70-130	2.79	20	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.38	20	
1,2,3-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130	4.61	20	
1,2,4-Trichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130	1.34	20	
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	8.42	20	
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130	4.26	20	
Trichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	3.62	20	
Trichlorofluoromethane (Freon 11)	0.0269	0.010	mg/Kg wet	0.0200		**134**	*	70-130	4.25	20	L-07
1,2,3-Trichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.4		70-130	1.14	20	
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0		70-130	0.640	20	
1,3,5-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	3.69	20	
Vinyl Chloride	0.0243	0.010	mg/Kg wet	0.0200		122		70-130	0.577	20	
m+p Xylene	0.0388	0.0040	mg/Kg wet	0.0400		97.1		70-130	2.71	20	
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		99.2		70-130	3.80	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0495*		mg/Kg wet	0.0500		99.1		70-130			
Surrogate: Toluene-d8	*0.0521*		mg/Kg wet	0.0500		104		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.0500		100		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 B228235 - SW-846 3546										
Blank (B228235-BLK1)				Prepared: 04/15/19 Analyzed: 04/16/19						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

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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 B228235 - SW-846 3546											
Blank (B228235-BLK1)				Prepared: 04/15/19 Analyzed: 04/16/19							
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.69*		mg/Kg wet	6.67		85.3	30-130				
Surrogate: Phenol-d6	*6.07*		mg/Kg wet	6.67		91.0	30-130				
Surrogate: Nitrobenzene-d5	*2.95*		mg/Kg wet	3.33		88.4	30-130				
Surrogate: 2-Fluorobiphenyl	*2.88*		mg/Kg wet	3.33		86.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.37*		mg/Kg wet	6.67		95.5	30-130				
Surrogate: p-Terphenyl-d14	*3.35*		mg/Kg wet	3.33		101	30-130				
LCS (B228235-BS1)				Prepared: 04/15/19 Analyzed: 04/16/19							
Acenaphthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140				
Acenaphthylene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140				
Acetophenone	1.23	0.34	mg/Kg wet	1.67		73.6	40-140				
Aniline	0.884	0.34	mg/Kg wet	1.67		53.1	40-140			V-34	
Anthracene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140				
Benzo(a)anthracene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140				
Benzo(a)pyrene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140				
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140				
Benzo(g,h,i)perylene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140				
Benzo(k)fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.1	40-140				
Bis(2-chloroethoxy)methane	1.68	0.34	mg/Kg wet	1.67		101	40-140				
Bis(2-chloroethyl)ether	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Bis(2-chloroisopropyl)ether	1.37	0.34	mg/Kg wet	1.67		82.4	40-140				
Bis(2-Ethylhexyl)phthalate	1.61	0.34	mg/Kg wet	1.67		96.8	40-140				
4-Bromophenylphenylether	1.55	0.34	mg/Kg wet	1.67		93.3	40-140				
Butylbenzylphthalate	1.62	0.34	mg/Kg wet	1.67		97.4	40-140				
4-Chloroaniline	0.856	0.66	mg/Kg wet	1.67		51.4	15-140			V-34	†
2-Chloronaphthalene	1.32	0.34	mg/Kg wet	1.67		78.9	40-140				
2-Chlorophenol	1.37	0.34	mg/Kg wet	1.67		82.3	30-130				
Chrysene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140				
Dibenz(a,h)anthracene	1.62	0.17	mg/Kg wet	1.67		97.1	40-140				
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.2	40-140				
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		93.3	40-140				
1,2-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8	40-140				
1,3-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.3	40-140				
1,4-Dichlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140				
3,3-Dichlorobenzidine	1.13	0.17	mg/Kg wet	1.67		67.6	40-140				
2,4-Dichlorophenol	1.47	0.34	mg/Kg wet	1.67		88.0	30-130				
Diethylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140				
2,4-Dimethylphenol	1.49	0.34	mg/Kg wet	1.67		89.4	30-130				
Dimethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.8	40-140				
2,4-Dinitrophenol	1.04	0.66	mg/Kg wet	1.67		62.6	15-140				†
2,4-Dinitrotoluene	1.41	0.34	mg/Kg wet	1.67		84.4	40-140				
2,6-Dinitrotoluene	1.51	0.34	mg/Kg wet	1.67		90.4	40-140				
Di-n-octylphthalate	1.53	0.34	mg/Kg wet	1.67		91.9	40-140				
1,2-Diphenylhydrazine/Azobenzene	1.58	0.34	mg/Kg wet	1.67		94.7	40-140				
Fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.4	40-140				
Fluorene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140				

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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 B228235 - SW-846 3546											
LCS (B228235-BS1)				Prepared: 04/15/19 Analyzed: 04/16/19							
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.2	40-140				
Hexachlorobutadiene	1.13	0.34	mg/Kg wet	1.67		67.7	40-140				
Hexachloroethane	1.09	0.34	mg/Kg wet	1.67		65.4	40-140				
Indeno(1,2,3-cd)pyrene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140				
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.1	40-140				
2-Methylnaphthalene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140				
2-Methylphenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130				
3/4-Methylphenol	1.32	0.34	mg/Kg wet	1.67		79.1	30-130				
Naphthalene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140				
Nitrobenzene	1.28	0.34	mg/Kg wet	1.67		76.6	40-140				
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		80.9	30-130				
4-Nitrophenol	1.41	0.66	mg/Kg wet	1.67		84.8	15-140				†
Pentachlorophenol	1.26	0.34	mg/Kg wet	1.67		75.4	30-130				
Phenanthrene	1.51	0.17	mg/Kg wet	1.67		90.5	40-140				
Phenol	1.49	0.34	mg/Kg wet	1.67		89.4	15-140				†
Pyrene	1.55	0.17	mg/Kg wet	1.67		92.7	40-140				
Pyridine	0.826	0.34	mg/Kg wet	1.67		49.6	30-140				†
1,2,4-Trichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.3	40-140				
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.8	30-130				
2,4,6-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.5	30-130				
Surrogate: 2-Fluorophenol	*5.32*		mg/Kg wet	6.67		79.9	30-130				
Surrogate: Phenol-d6	*5.95*		mg/Kg wet	6.67		89.2	30-130				
Surrogate: Nitrobenzene-d5	*2.79*		mg/Kg wet	3.33		83.6	30-130				
Surrogate: 2-Fluorobiphenyl	*3.03*		mg/Kg wet	3.33		91.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.58*		mg/Kg wet	6.67		98.7	30-130				
Surrogate: p-Terphenyl-d14	*3.29*		mg/Kg wet	3.33		98.6	30-130				
LCS Dup (B228235-BSD1)				Prepared: 04/15/19 Analyzed: 04/16/19							
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	2.55	30		
Acenaphthylene	1.47	0.17	mg/Kg wet	1.67		87.9	40-140	2.58	30		
Acetophenone	1.21	0.34	mg/Kg wet	1.67		72.7	40-140	1.23	30		
Aniline	0.880	0.34	mg/Kg wet	1.67		52.8	40-140	0.453	30	V-34	
Anthracene	1.49	0.17	mg/Kg wet	1.67		89.4	40-140	1.11	30		
Benzo(a)anthracene	1.55	0.17	mg/Kg wet	1.67		92.8	40-140	0.151	30		
Benzo(a)pyrene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140	0.729	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140	0.185	30		
Benzo(g,h,i)perylene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140	2.09	30		
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140	0.889	30		
Bis(2-chloroethoxy)methane	1.69	0.34	mg/Kg wet	1.67		101	40-140	0.653	30		
Bis(2-chloroethyl)ether	1.27	0.34	mg/Kg wet	1.67		76.3	40-140	3.96	30		
Bis(2-chloroisopropyl)ether	1.33	0.34	mg/Kg wet	1.67		79.6	40-140	3.53	30		
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.7	40-140	1.99	30		
4-Bromophenylphenylether	1.54	0.34	mg/Kg wet	1.67		92.3	40-140	1.03	30		
Butylbenzylphthalate	1.64	0.34	mg/Kg wet	1.67		98.1	40-140	0.757	30		
4-Chloroaniline	0.874	0.66	mg/Kg wet	1.67		52.4	15-140	2.00	30	V-34	†
2-Chloronaphthalene	1.32	0.34	mg/Kg wet	1.67		78.9	40-140	0.0254	30		
2-Chlorophenol	1.33	0.34	mg/Kg wet	1.67		79.8	30-130	3.11	30		
Chrysene	1.55	0.17	mg/Kg wet	1.67		92.8	40-140	0.605	30		
Dibenz(a,h)anthracene	1.61	0.17	mg/Kg wet	1.67		96.5	40-140	0.620	30		
Dibenzofuran	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	1.38	30		
Di-n-butylphthalate	1.54	0.34	mg/Kg wet	1.67		92.1	40-140	1.23	30		
1,2-Dichlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	1.33	30		

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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 B228235 - SW-846 3546										
LCS Dup (B228235-BSD1)				Prepared: 04/15/19 Analyzed: 04/16/19						
1,3-Dichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.5	40-140	1.20	30	
1,4-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140	3.24	30	
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	2.12	30	
2,4-Dichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130	0.927	30	
Diethylphthalate	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	1.50	30	
2,4-Dimethylphenol	1.50	0.34	mg/Kg wet	1.67		90.1	30-130	0.869	30	
Dimethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	3.20	30	
2,4-Dinitrophenol	1.06	0.66	mg/Kg wet	1.67		63.5	15-140	1.52	30	†
2,4-Dinitrotoluene	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	0.166	30	
2,6-Dinitrotoluene	1.51	0.34	mg/Kg wet	1.67		90.7	40-140	0.265	30	
Di-n-octylphthalate	1.53	0.34	mg/Kg wet	1.67		91.6	40-140	0.283	30	
1,2-Diphenylhydrazine/Azobenzene	1.57	0.34	mg/Kg wet	1.67		94.3	40-140	0.466	30	
Fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	0.201	30	
Fluorene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	2.76	30	
Hexachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.8	40-140	0.723	30	
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		66.2	40-140	2.18	30	
Hexachloroethane	1.06	0.34	mg/Kg wet	1.67		63.8	40-140	2.45	30	
Indeno(1,2,3-cd)pyrene	1.63	0.17	mg/Kg wet	1.67		97.7	40-140	1.91	30	
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	0.325	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140	0.599	30	
2-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130	0.922	30	
3/4-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130	1.50	30	
Naphthalene	1.25	0.17	mg/Kg wet	1.67		75.3	40-140	1.63	30	
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	0.865	30	
2-Nitrophenol	1.34	0.34	mg/Kg wet	1.67		80.4	30-130	0.645	30	
4-Nitrophenol	1.46	0.66	mg/Kg wet	1.67		87.6	15-140	3.29	30	†
Pentachlorophenol	1.29	0.34	mg/Kg wet	1.67		77.2	30-130	2.41	30	
Phenanthrene	1.50	0.17	mg/Kg wet	1.67		90.2	40-140	0.288	30	
Phenol	1.50	0.34	mg/Kg wet	1.67		90.0	15-140	0.647	30	†
Pyrene	1.54	0.17	mg/Kg wet	1.67		92.2	40-140	0.627	30	
Pyridine	0.824	0.34	mg/Kg wet	1.67		49.4	30-140	0.242	30	†
1,2,4-Trichlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.1	40-140	1.75	30	
2,4,5-Trichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.5	30-130	1.38	30	
2,4,6-Trichlorophenol	1.56	0.34	mg/Kg wet	1.67		93.3	30-130	3.05	30	
Surrogate: 2-Fluorophenol	*5.16*		mg/Kg wet	6.67		77.5	30-130			
Surrogate: Phenol-d6	*5.90*		mg/Kg wet	6.67		88.5	30-130			
Surrogate: Nitrobenzene-d5	*2.74*		mg/Kg wet	3.33		82.3	30-130			
Surrogate: 2-Fluorobiphenyl	*3.06*		mg/Kg wet	3.33		91.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.66*		mg/Kg wet	6.67		99.9	30-130			
Surrogate: p-Terphenyl-d14	*3.22*		mg/Kg wet	3.33		96.7	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B228231 - SW-846 3540C										
Blank (B228231-BLK1)				Prepared: 04/15/19 Analyzed: 04/16/19						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.1	30-150			
LCS (B228231-BS1)				Prepared: 04/15/19 Analyzed: 04/16/19						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.6	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		91.9	30-150			
LCS Dup (B228231-BSD1)				Prepared: 04/15/19 Analyzed: 04/16/19						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.7	40-140	16.0	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		100	40-140	19.5	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.2	40-140	17.5	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		92.5	40-140	15.1	30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.217*		mg/Kg wet	0.200		108	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B228233 - SW-846 3546										
Blank (B228233-BLK1)				Prepared: 04/15/19 Analyzed: 04/17/19						
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg wet	3.33		58.5	40-140			
LCS (B228233-BS1)				Prepared: 04/15/19 Analyzed: 04/17/19						
TPH (C9-C36)	29.3	8.3	mg/Kg wet	33.3		87.8	40-140			
Surrogate: 2-Fluorobiphenyl	*2.62*		mg/Kg wet	3.33		78.6	40-140			
LCS Dup (B228233-BSD1)				Prepared: 04/15/19 Analyzed: 04/17/19						
TPH (C9-C36)	28.8	8.3	mg/Kg wet	33.3		86.5	40-140	1.46	30	
Surrogate: 2-Fluorobiphenyl	*2.77*		mg/Kg wet	3.33		83.1	40-140			

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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 B228326 - SW-846 7471										
Blank (B228326-BLK1)				Prepared: 04/18/19 Analyzed: 04/19/19						
Mercury	ND	0.025	mg/Kg wet							
LCS (B228326-BS1)				Prepared: 04/18/19 Analyzed: 04/19/19						
Mercury	4.19	0.37	mg/Kg wet	3.71		113	65-135			
LCS Dup (B228326-BSD1)				Prepared: 04/18/19 Analyzed: 04/19/19						
Mercury	3.76	0.38	mg/Kg wet	3.71		101	65-135	10.7	30	
Batch B228464 - SW-846 3050B										
Blank (B228464-BLK1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B228464-BS1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Antimony	69.0	5.0	mg/Kg wet	89.6		77.1	3.3-196.4			
Arsenic	180	5.0	mg/Kg wet	202		89.2	82.7-117.3			
Barium	269	5.0	mg/Kg wet	270		99.8	82.6-117.8			
Beryllium	92.7	0.50	mg/Kg wet	96.8		95.8	83.4-116.7			
Cadmium	132	0.50	mg/Kg wet	141		93.7	83-117			
Chromium	159	1.0	mg/Kg wet	167		94.9	81.4-118			
Copper	106	1.0	mg/Kg wet	108		98.2	83.4-115.7			
Lead	69.2	1.5	mg/Kg wet	73.8		93.8	82.9-117.1			
Nickel	87.0	1.0	mg/Kg wet	89.4		97.3	82.9-117.5			
Selenium	39.8	10	mg/Kg wet	49.9		79.8	79.2-120.6			
Silver	68.6	1.0	mg/Kg wet	71.1		96.4	79.7-120.1			
Thallium	64.1	5.0	mg/Kg wet	58.5		110	80.7-119.5			
Vanadium	53.2	2.0	mg/Kg wet	58.2		91.5	79-121			
Zinc	246	2.0	mg/Kg wet	264		93.3	80.7-119.3			

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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 B228464 - SW-846 3050B										
LCS Dup (B228464-BSD1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Antimony	70.6	4.8	mg/Kg wet	89.6		78.8	3.3-196.4	2.19	30	
Arsenic	184	4.8	mg/Kg wet	202		91.1	82.7-117.3	2.03	30	
Barium	271	4.8	mg/Kg wet	270		100	82.6-117.8	0.550	30	
Beryllium	95.0	0.48	mg/Kg wet	96.8		98.1	83.4-116.7	2.40	30	
Cadmium	136	0.48	mg/Kg wet	141		96.3	83-117	2.69	30	
Chromium	161	0.96	mg/Kg wet	167		96.5	81.4-118	1.67	30	
Copper	108	0.96	mg/Kg wet	108		100	83.4-115.7	1.85	30	
Lead	68.8	1.4	mg/Kg wet	73.8		93.2	82.9-117.1	0.648	30	
Nickel	89.3	0.96	mg/Kg wet	89.4		99.9	82.9-117.5	2.60	30	
Silver	70.9	0.96	mg/Kg wet	71.1		99.7	79.7-120.1	3.33	30	
Thallium	65.8	4.8	mg/Kg wet	58.5		112	80.7-119.5	2.63	30	
Vanadium	53.9	1.9	mg/Kg wet	58.2		92.7	79-121	1.32	30	
Zinc	253	1.9	mg/Kg wet	264		95.8	80.7-119.3	2.71	30	
MRL Check (B228464-MRL1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Lead	0.476	0.49	mg/Kg wet	0.489		97.2	80-120			

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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 B228169 - SW-846 9045C										
LCS (B228169-BS1)				Prepared & Analyzed: 04/13/19						
pH	5.95		pH Units	6.00		99.2	90-110			
Batch B228496 - SW-846 9014										
Blank (B228496-BLK1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B228496-BS1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Reactive Cyanide	9.7	0.40	mg/Kg	10.0		96.9	83.6-111			
Batch B228498 - SW-846 9030A										
Blank (B228498-BLK1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B228498-BS1)				Prepared: 04/17/19 Analyzed: 04/18/19						
Reactive Sulfide	14	2.0	mg/Kg	14.8		97.3	54.9-121			
Batch B228560 - SM21-22 2510B Modified										
Blank (B228560-BLK1)				Prepared & Analyzed: 04/18/19						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B228560-BS1)				Prepared & Analyzed: 04/18/19						
Specific conductance	190		µmhos/cm	192		101	90-110			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B228378 - SW-846 3010A											
Blank (B228378-BLK1)				Prepared: 04/16/19 Analyzed: 04/17/19							
Lead	ND	0.010	mg/L								
LCS (B228378-BS1)				Prepared: 04/16/19 Analyzed: 04/17/19							
Lead	0.517	0.010	mg/L	0.500		103		80-120			
LCS Dup (B228378-BSD1)				Prepared: 04/16/19 Analyzed: 04/17/19							
Lead	0.511	0.010	mg/L	0.500		102		80-120	1.14	20	
Matrix Spike (B228378-MS1)	**Source: 19D0736-01**			Prepared: 04/16/19 Analyzed: 04/17/19							
Lead	183	0.010	mg/L	0.500	180	**696**	*	75-125			MS-19

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B228231-BS1 Date(s) Analyzed: 04/16/2019 04/16/2019

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B228231-BSD1 Date(s) Analyzed: 04/16/2019 04/16/2019

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.20	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
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.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
O-32	A dilution was performed as part of the standard analytical procedure.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration verification (CCV) 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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Lead	NY,CT,ME,NC,NH,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY

JLH

Phone: 413-525-2332 19D0736
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Vertex
Address: 100 N Washington St, 302, Boston MA
Phone: 617-275-5407
Project Name: Rivers Edge
Project Location: Wayland, MA
Project Number: 46047
Project Manager: K. Sarsen
Con-Test Quote Name/Number:
Invoice Recipient: K. Sarsen
Sampled By: K. Sarsen

Requested Turnaround Time:
7-Day ☐ 10-Day ☐
Due Date: 5-Day ☒

Prelim Approval Required:
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery:
Format: PDF ☒ EXCEL ☒
Other: EDD
CLP Like Data Pkg Required: ☐
Email To: ksarsen@vertexeng.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	Lead, Ammonia, Cu, Zn, N	TCLP Lead	VOCs	SVOC	TPH	MCP 14	PCB w/ Soxhlet	Lgo/Carr/React/Sgc	# of Containers	Preservation Code	Container Code
								1	1	3	1	1	1	1	1	1	1	1
								1	1	M	1	1	1	1	1	1	1	1
								A	A	V	A	A	A	A	A	1	1	1
1	V-201	4/11/19	1330		X	S	H	X	X									
2	V-202		1335		X			X	X									
3	V-203		1340		X			X	X									
4	V-204		1345		X			X	X									
5	V-205		1350		X			X	X									
6	V-206		1355		X			X	X									
7	Firing Range	4/11/19	1400	X						X	X	X	X	X	X			

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Relinquished by: (signature)	Date/Time:
		4/12/19 1553
	Received by: (signature)	Date/Time:
	Paul Chastney	4-12-19 15[illegible]
	Relinquished by: (signature)	Date/Time:
	Paul Chastney	4-12-19 18[illegible]
	Received by: (signature)	Date/Time:
		4/12/19 1835
	Relinquished by: (signature)	Date/Time:
		4/12/19 2020
	Received by: (signature)	Date/Time:
		4/12/19 20:20

Detection Limit Requirements:
MA
RCP
Other

Special Requirements:
☒ MA MCP Required
☐ MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity:
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other:
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Vertex

Received By MP Date 4/12/19 Time 20:26

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.1 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis ID's T T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Miranda

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	13
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	1
DI-	2	Other Glass		Other Plastic	1	Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 4/12/19 20:26	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 19D0736
Project Location: Wayland, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

19D0736-01 thru 19D0736-07

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX 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: Tod Kopyscinski Position: Laboratory Director

Printed Name: Tod E. Kopyscinski Date: 04/19/19

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 8, 2019

Kristen Sarson
Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114

Project Location: Wayland, MA
Client Job Number:
Project Number: 46047
Laboratory Work Order Number: 19D0030

Enclosed are results of analyses for samples received by the laboratory on April 1, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

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Table of Contents (continued)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/8/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19D0030

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-101 (MW)	19D0030-02	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
V-102 (MW)	19D0030-03	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
V-105 (MW)	19D0030-04	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				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.

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EPA 300.0

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Nitrate as N

19D0030-04[V-105 (MW)], B227319-MS1

SM 21-22 4500 P E

Qualifications:

R-05

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:

Orthophosphate as P

B227187-BSD1

Phosphorus, Total

B227249-BSD1

W-17

Samples analyzed for Ortho phosphate were not filtered within 15 minutes of sampling.

Analyte & Samples(s) Qualified:

Orthophosphate as P

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

SW-846 6020B

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Manganese

19D0030-02[V-101 (MW)], B227365-MS1

SW-846 8260C

Qualifications:

R-05

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:

Acetone

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)], B227205-BLK1, B227205-BS1, B227205-BSD1, S034302-CCV1

RL-07

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

1,2,4-Trichlorobenzene

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

1,2-Dibromo-3-chloropropane (DB

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

Carbon Disulfide

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

Methylene Chloride

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

Naphthalene

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)]

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V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)], B227205-BLK1, B227205-BS1, B227205-BSD1, S034302-CCV1

V-20

Continuing calibration verification (CCV) 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:

Styrene

B227205-BS1, B227205-BSD1, S034302-CCV1

SW-846 8270D

Qualifications:

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)], B227556-BLK1, B227556-BS1, B227556-BSD1, S034392-CCV1

Aniline

19D0030-02[V-101 (MW)], 19D0030-03[V-102 (MW)], 19D0030-04[V-105 (MW)], B227556-BLK1, B227556-BS1, B227556-BSD1, S034392-CCV1

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.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

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 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.

Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
tert-Amyl Methyl Ether (TAME)	4.5	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Methyl tert-Butyl Ether (MTBE)	8.2	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.3	70-130		4/3/19 16:06
Toluene-d8	97.0	70-130		4/3/19 16:06
4-Bromofluorobenzene	98.0	70-130		4/3/19 16:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Acenaphthylene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Acetophenone	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Aniline	ND	5.5	µg/L	1	V-34	SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Anthracene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Benzo(a)anthracene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Benzo(a)pyrene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Benzo(b)fluoranthene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Benzo(g,h,i)perylene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Benzo(k)fluoranthene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Bis(2-chloroethoxy)methane	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Bis(2-chloroethyl)ether	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Bis(2-chloroisopropyl)ether	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
4-Bromophenylphenylether	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Butylbenzylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
4-Chloroaniline	ND	11	µg/L	1	V-34	SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2-Chloronaphthalene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2-Chlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Chrysene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Dibenz(a,h)anthracene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Dibenzofuran	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Di-n-butylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
1,2-Dichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
1,3-Dichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
1,4-Dichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
3,3-Dichlorobenzidine	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,4-Dichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Diethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,4-Dimethylphenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Dimethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,4-Dinitrophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,4-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,6-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Di-n-octylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Fluoranthene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Fluorene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Hexachlorobenzene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Hexachlorobutadiene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Hexachloroethane	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Indeno(1,2,3-cd)pyrene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Isophorone	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2-Methylnaphthalene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
3/4-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Naphthalene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Nitrobenzene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
4-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Pentachlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Phenanthrene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Phenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
Pyrene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
1,2,4-Trichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,4,5-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL
2,4,6-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.5	15-110		4/6/19 15:02
Phenol-d6	32.8	15-110		4/6/19 15:02
Nitrobenzene-d5	73.3	30-130		4/6/19 15:02
2-Fluorobiphenyl	76.5	30-130		4/6/19 15:02
2,4,6-Tribromophenol	80.3	15-110		4/6/19 15:02
p-Terphenyl-d14	88.7	30-130		4/6/19 15:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1221 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1232 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1242 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1248 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1254 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1260 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1262 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB
Aroclor-1268 [1]	ND	0.15	µg/L	1		SW-846 8082A	4/5/19	4/6/19 17:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.2	30-150		4/6/19 17:52
Decachlorobiphenyl [2]	84.6	30-150		4/6/19 17:52
Tetrachloro-m-xylene [1]	73.8	30-150		4/6/19 17:52
Tetrachloro-m-xylene [2]	78.5	30-150		4/6/19 17:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Arsenic	ND	0.40	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Barium	93	10	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Cadmium	0.52	0.50	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Copper	5.1	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Lead	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Manganese	4400	100	µg/L	100	MS-19	SW-846 6020B	4/3/19	4/5/19 10:53	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:29	EJB
Nickel	17	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	4/3/19	4/4/19 13:39	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW)
Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.98	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 10:53	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-101 (MW) | Sampled: 4/1/2019 09:15

Sample ID: 19D0030-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	1.5	0.30	mg/L	1		SM19-22 4500 NH3 C	4/2/19	4/3/19 10:00	EC
Chloride	260	10	mg/L	10		EPA 300.0	4/5/19	4/5/19 10:48	IS
Nitrate as N	2.7	0.10	mg/L	1		EPA 300.0	4/2/19	4/2/19 6:24	IS
Nitrite as N	0.400	0.100	mg/L	1		EPA 300.0	4/2/19	4/2/19 6:24	IS
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/1/19	4/1/19 21:30	IS
Phosphorus, Total	ND	0.062	mg/L	1.25		SM 21-22 4500 P E	4/2/19	4/2/19 14:09	IS
Total Kjeldahl Nitrogen	2.0	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	5.1	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/8/19	4/8/19 7:28	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Methyl tert-Butyl Ether (MTBE)	1.1	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 16:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.6	70-130		4/3/19 16:33
Toluene-d8	98.1	70-130		4/3/19 16:33
4-Bromofluorobenzene	98.7	70-130		4/3/19 16:33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Acenaphthylene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Acetophenone	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Aniline	ND	4.9	µg/L	1	V-34	SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Anthracene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Benzo(a)anthracene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Benzo(a)pyrene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Benzo(b)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Benzo(g,h,i)perylene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Benzo(k)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Bis(2-chloroethoxy)methane	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Bis(2-chloroethyl)ether	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Bis(2-chloroisopropyl)ether	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
4-Bromophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Butylbenzylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
4-Chloroaniline	ND	9.8	µg/L	1	V-34	SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2-Chloronaphthalene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2-Chlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Chrysene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Dibenz(a,h)anthracene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Di-n-butylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
1,2-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
1,3-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
1,4-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
3,3-Dichlorobenzidine	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,4-Dichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Diethylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,4-Dimethylphenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Dimethylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,4-Dinitrophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,4-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,6-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Di-n-octylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Fluoranthene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Fluorene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Hexachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Hexachlorobutadiene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Hexachloroethane	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Indeno(1,2,3-cd)pyrene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Isophorone	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
3/4-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Naphthalene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Nitrobenzene	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
4-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Pentachlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Phenanthrene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Phenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
Pyrene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
1,2,4-Trichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,4,5-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL
2,4,6-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	45.3	15-110		4/6/19 15:28	
Phenol-d6	33.7	15-110		4/6/19 15:28	
Nitrobenzene-d5	81.0	30-130		4/6/19 15:28	
2-Fluorobiphenyl	83.7	30-130		4/6/19 15:28	
2,4,6-Tribromophenol	91.8	15-110		4/6/19 15:28	
p-Terphenyl-d14	97.0	30-130		4/6/19 15:28	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1221 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1232 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1242 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1248 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1254 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1260 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1262 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB
Aroclor-1268 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		4/6/19 18:10
Decachlorobiphenyl [2]	78.5	30-150		4/6/19 18:10
Tetrachloro-m-xylene [1]	77.1	30-150		4/6/19 18:10
Tetrachloro-m-xylene [2]	81.2	30-150		4/6/19 18:10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Arsenic	22	0.40	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Barium	210	50	µg/L	5		SW-846 6020B	4/3/19	4/5/19 11:07	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Copper	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Lead	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Manganese	7000	100	µg/L	100		SW-846 6020B	4/3/19	4/5/19 11:00	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:30	EJB
Nickel	9.0	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/5/19 12:12	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:22	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW)
Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	26	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 10:56	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-102 (MW) | Sampled: 4/1/2019 11:00

Sample ID: 19D0030-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	1.5	0.30	mg/L	1		SM19-22 4500 NH3 C	4/2/19	4/3/19 10:00	EC
Chloride	95	10	mg/L	10		EPA 300.0	4/5/19	4/5/19 11:03	IS
Nitrate as N	4.7	0.10	mg/L	1		EPA 300.0	4/2/19	4/2/19 6:38	IS
Nitrite as N	0.254	0.100	mg/L	1		EPA 300.0	4/2/19	4/2/19 6:38	IS
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/1/19	4/1/19 21:30	IS
Phosphorus, Total	ND	0.062	mg/L	1.25		SM 21-22 4500 P E	4/2/19	4/2/19 14:09	IS
Total Kjeldahl Nitrogen	2.0	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	7.0	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/8/19	4/8/19 7:28	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Methyl tert-Butyl Ether (MTBE)	1.6	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 17:00	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.9	70-130		4/3/19 17:00
Toluene-d8	97.8	70-130		4/3/19 17:00
4-Bromofluorobenzene	97.0	70-130		4/3/19 17:00

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Acenaphthylene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Acetophenone	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Aniline	ND	5.7	µg/L	1	V-34	SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Anthracene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Benzo(a)anthracene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Benzo(a)pyrene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Benzo(b)fluoranthene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Benzo(g,h,i)perylene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Benzo(k)fluoranthene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Bis(2-chloroethoxy)methane	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Bis(2-chloroethyl)ether	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Bis(2-chloroisopropyl)ether	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
4-Bromophenylphenylether	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Butylbenzylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
4-Chloroaniline	ND	11	µg/L	1	V-34	SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2-Chloronaphthalene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2-Chlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Chrysene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Dibenz(a,h)anthracene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Dibenzofuran	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Di-n-butylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
1,2-Dichlorobenzene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
1,3-Dichlorobenzene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
1,4-Dichlorobenzene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
3,3-Dichlorobenzidine	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,4-Dichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Diethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,4-Dimethylphenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Dimethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,4-Dinitrophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,4-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,6-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Di-n-octylphthalate	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Fluoranthene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Fluorene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Hexachlorobenzene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Hexachlorobutadiene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Hexachloroethane	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Indeno(1,2,3-cd)pyrene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Isophorone	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2-Methylnaphthalene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
3/4-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Naphthalene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Nitrobenzene	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
4-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Pentachlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Phenanthrene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Phenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
Pyrene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
1,2,4-Trichlorobenzene	ND	5.7	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,4,5-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL
2,4,6-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/5/19	4/6/19 15:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	45.8	15-110		4/6/19 15:54
Phenol-d6	33.9	15-110		4/6/19 15:54
Nitrobenzene-d5	74.9	30-130		4/6/19 15:54
2-Fluorobiphenyl	76.8	30-130		4/6/19 15:54
2,4,6-Tribromophenol	85.8	15-110		4/6/19 15:54
p-Terphenyl-d14	87.2	30-130		4/6/19 15:54

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1221 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1232 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1242 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1248 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1254 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1260 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1262 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB
Aroclor-1268 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/6/19 18:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.8	30-150		4/6/19 18:27
Decachlorobiphenyl [2]	87.7	30-150		4/6/19 18:27
Tetrachloro-m-xylene [1]	76.5	30-150		4/6/19 18:27
Tetrachloro-m-xylene [2]	80.8	30-150		4/6/19 18:27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Arsenic	ND	0.40	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Barium	150	50	µg/L	5		SW-846 6020B	4/3/19	4/5/19 11:10	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Copper	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Lead	ND	1.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Manganese	870	20	µg/L	20		SW-846 6020B	4/3/19	4/4/19 15:11	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:32	EJB
Nickel	44	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/3/19	4/5/19 12:16	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	4/3/19	4/4/19 15:25	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW)
Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	1.1	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 11:00	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0030

Date Received: 4/1/2019

Field Sample #: V-105 (MW) | Sampled: 4/1/2019 15:00

Sample ID: 19D0030-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	1.1	0.30	mg/L	1		SM19-22 4500 NH3 C	4/2/19	4/3/19 10:00	EC
Chloride	140	10	mg/L	10		EPA 300.0	4/5/19	4/5/19 11:18	IS
Nitrate as N	7.8	0.20	mg/L	2	MS-07	EPA 300.0	4/2/19	4/2/19 15:14	MMH
Nitrite as N	0.810	0.100	mg/L	1		EPA 300.0	4/2/19	4/2/19 14:29	MMH
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/1/19	4/1/19 21:30	IS
Phosphorus, Total	ND	0.062	mg/L	1.25		SM 21-22 4500 P E	4/2/19	4/2/19 14:09	IS
Total Kjeldahl Nitrogen	2.0	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	11	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/8/19	4/8/19 7:28	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227184	10.0	10.0	04/02/19
19D0030-03 [V-102 (MW)]	B227184	10.0	10.0	04/02/19

EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-04 [V-105 (MW)]	B227319	10.0	10.0	04/02/19

EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-04 [V-105 (MW)]	B227332	10.0	10.0	04/02/19

EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227352	10.0	10.0	04/05/19
19D0030-03 [V-102 (MW)]	B227352	10.0	10.0	04/05/19
19D0030-04 [V-105 (MW)]	B227352	10.0	10.0	04/05/19

SM 21-22 4500 P E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227187	50.0	50.0	04/01/19
19D0030-03 [V-102 (MW)]	B227187	50.0	50.0	04/01/19
19D0030-04 [V-105 (MW)]	B227187	50.0	50.0	04/01/19

SM 21-22 4500 P E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227249	50.0	50.0	04/02/19
19D0030-03 [V-102 (MW)]	B227249	50.0	50.0	04/02/19
19D0030-04 [V-105 (MW)]	B227249	50.0	50.0	04/02/19

SM19-22 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227200	100	100	04/02/19
19D0030-03 [V-102 (MW)]	B227200	100	100	04/02/19
19D0030-04 [V-105 (MW)]	B227200	100	100	04/02/19

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227312	25.0	25.0	04/03/19
19D0030-03 [V-102 (MW)]	B227312	25.0	25.0	04/03/19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-04 [V-105 (MW)]	B227312	25.0	25.0	04/03/19

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227642	50.0	50.0	04/08/19
19D0030-03 [V-102 (MW)]	B227642	50.0	50.0	04/08/19
19D0030-04 [V-105 (MW)]	B227642	50.0	50.0	04/08/19

Prep Method: SW-846 3005A-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227365	50.0	50.0	04/03/19
19D0030-03 [V-102 (MW)]	B227365	50.0	50.0	04/03/19
19D0030-04 [V-105 (MW)]	B227365	50.0	50.0	04/03/19

Prep Method: SW-846 3005A Dissolved-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227576	10.0	10.0	04/05/19
19D0030-03 [V-102 (MW)]	B227576	10.0	10.0	04/05/19
19D0030-04 [V-105 (MW)]	B227576	10.0	10.0	04/05/19

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227561	6.00	6.00	04/08/19
19D0030-03 [V-102 (MW)]	B227561	6.00	6.00	04/08/19
19D0030-04 [V-105 (MW)]	B227561	6.00	6.00	04/08/19

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227544	130	2.00	04/05/19
19D0030-03 [V-102 (MW)]	B227544	120	2.00	04/05/19
19D0030-04 [V-105 (MW)]	B227544	120	2.00	04/05/19

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227205	5	5.00	04/03/19
19D0030-03 [V-102 (MW)]	B227205	5	5.00	04/03/19
19D0030-04 [V-105 (MW)]	B227205	5	5.00	04/03/19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0030-02 [V-101 (MW)]	B227556	910	1.00	04/05/19
19D0030-03 [V-102 (MW)]	B227556	1020	1.00	04/05/19
19D0030-04 [V-105 (MW)]	B227556	870	1.00	04/05/19

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 B227205 - SW-846 5030B										
Blank (B227205-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19						
Acetone	ND	10	µg/L							R-05
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							
2-Butanone (MEK)	ND	10	µg/L							
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							
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	0.50	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	0.60	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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 B227205 - SW-846 5030B											
Blank (B227205-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19							
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	*22.0*		µg/L	25.0		87.8	70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.5	70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.4	70-130				
LCS (B227205-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Acetone	148	10	µg/L	100		148	40-160			L-14, R-05	†
tert-Amyl Methyl Ether (TAME)	9.79	0.50	µg/L	10.0		97.9	70-130				
Benzene	9.61	1.0	µg/L	10.0		96.1	70-130				
Bromobenzene	11.9	1.0	µg/L	10.0		119	70-130				
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130				
Bromodichloromethane	10.4	1.0	µg/L	10.0		104	70-130				
Bromoform	12.3	1.0	µg/L	10.0		123	70-130				
Bromomethane	7.28	2.0	µg/L	10.0		72.8	40-160				†
2-Butanone (MEK)	92.0	10	µg/L	100		92.0	40-160				†
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130				
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130				
Carbon Disulfide	12.1	5.0	µg/L	10.0		121	70-130				
Carbon Tetrachloride	9.40	1.0	µg/L	10.0		94.0	70-130				
Chlorobenzene	12.4	1.0	µg/L	10.0		124	70-130				
Chlorodibromomethane	11.6	0.50	µg/L	10.0		116	70-130				
Chloroethane	11.2	2.0	µg/L	10.0		112	70-130				
Chloroform	9.49	2.0	µg/L	10.0		94.9	70-130				
Chloromethane	7.67	2.0	µg/L	10.0		76.7	40-160				†
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130				
4-Chlorotoluene	12.2	1.0	µg/L	10.0		122	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.73	2.0	µg/L	10.0		87.3	70-130				
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130				
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130				
1,2-Dichlorobenzene	12.1	1.0	µg/L	10.0		121	70-130				
1,3-Dichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130				
1,4-Dichlorobenzene	11.9	1.0	µg/L	10.0		119	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 B227205 - SW-846 5030B											
LCS (B227205-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Dichlorodifluoromethane (Freon 12)	7.25	2.0	µg/L	10.0		72.5	40-160				†
1,1-Dichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130				
1,2-Dichloroethane	8.80	1.0	µg/L	10.0		88.0	70-130				
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130				
cis-1,2-Dichloroethylene	9.70	1.0	µg/L	10.0		97.0	70-130				
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130				
1,2-Dichloropropane	9.97	1.0	µg/L	10.0		99.7	70-130				
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130				
2,2-Dichloropropane	9.60	1.0	µg/L	10.0		96.0	70-130				
1,1-Dichloropropene	8.97	0.50	µg/L	10.0		89.7	70-130				
cis-1,3-Dichloropropene	11.5	0.40	µg/L	10.0		115	70-130				
trans-1,3-Dichloropropene	11.7	0.40	µg/L	10.0		117	70-130				
Diethyl Ether	13.0	2.0	µg/L	10.0		130	70-130				
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0		100	70-130				
1,4-Dioxane	92.3	50	µg/L	100		92.3	40-160			V-16	†
Ethylbenzene	11.5	1.0	µg/L	10.0		115	70-130				
Hexachlorobutadiene	12.6	0.60	µg/L	10.0		126	70-130				
2-Hexanone (MBK)	104	10	µg/L	100		104	40-160				†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118	70-130				
p-Isopropyltoluene (p-Cymene)	11.4	1.0	µg/L	10.0		114	70-130				
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130				
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130				
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	40-160				†
Naphthalene	9.77	2.0	µg/L	10.0		97.7	70-130				
n-Propylbenzene	11.6	1.0	µg/L	10.0		116	70-130				
Styrene	12.9	1.0	µg/L	10.0		129	70-130			V-20	
1,1,1,2-Tetrachloroethane	12.6	1.0	µg/L	10.0		126	70-130				
1,1,2,2-Tetrachloroethane	13.0	0.50	µg/L	10.0		130	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Tetrahydrofuran	10.7	2.0	µg/L	10.0		107	70-130				
Toluene	10.4	1.0	µg/L	10.0		104	70-130				
1,2,3-Trichlorobenzene	10.9	2.0	µg/L	10.0		109	70-130				
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130				
1,1,1-Trichloroethane	9.10	1.0	µg/L	10.0		91.0	70-130				
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130				
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130				
Trichlorofluoromethane (Freon 11)	9.44	2.0	µg/L	10.0		94.4	70-130				
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130				
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.0		113	70-130				
1,3,5-Trimethylbenzene	11.8	1.0	µg/L	10.0		118	70-130				
Vinyl Chloride	11.7	2.0	µg/L	10.0		117	70-130				
m+p Xylene	23.4	2.0	µg/L	20.0		117	70-130				
o-Xylene	12.2	1.0	µg/L	10.0		122	70-130				
Surrogate: 1,2-Dichloroethane-d4	*21.9*		µg/L	25.0		87.6	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	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 B227205 - SW-846 5030B												
LCS Dup (B227205-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19								
Acetone	109	10	µg/L	100		109	40-160	**29.9**	*	20	R-05	†
tert-Amyl Methyl Ether (TAME)	9.12	0.50	µg/L	10.0		91.2	70-130	7.09		20		
Benzene	9.57	1.0	µg/L	10.0		95.7	70-130	0.417		20		
Bromobenzene	11.4	1.0	µg/L	10.0		114	70-130	3.86		20		
Bromochloromethane	10.0	1.0	µg/L	10.0		100	70-130	0.199		20		
Bromodichloromethane	10.4	1.0	µg/L	10.0		104	70-130	0.577		20		
Bromoform	12.0	1.0	µg/L	10.0		120	70-130	2.47		20		
Bromomethane	7.86	2.0	µg/L	10.0		78.6	40-160	7.66		20		†
2-Butanone (MEK)	81.2	10	µg/L	100		81.2	40-160	12.5		20		†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	0.912		20		
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130	1.06		20		
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	0.725		20		
tert-Butyl Ethyl Ether (TBEE)	9.46	0.50	µg/L	10.0		94.6	70-130	6.35		20		
Carbon Disulfide	11.9	5.0	µg/L	10.0		119	70-130	1.67		20		
Carbon Tetrachloride	9.35	1.0	µg/L	10.0		93.5	70-130	0.533		20		
Chlorobenzene	12.2	1.0	µg/L	10.0		122	70-130	1.30		20		
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130	1.91		20		
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130	5.71		20		
Chloroform	9.51	2.0	µg/L	10.0		95.1	70-130	0.211		20		
Chloromethane	7.64	2.0	µg/L	10.0		76.4	40-160	0.392		20		†
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	1.87		20		
4-Chlorotoluene	11.9	1.0	µg/L	10.0		119	70-130	2.99		20		
1,2-Dibromo-3-chloropropane (DBCP)	8.02	2.0	µg/L	10.0		80.2	70-130	8.48		20		
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	1.91		20		
Dibromomethane	10.8	1.0	µg/L	10.0		108	70-130	1.66		20		
1,2-Dichlorobenzene	12.0	1.0	µg/L	10.0		120	70-130	0.747		20		
1,3-Dichlorobenzene	11.9	1.0	µg/L	10.0		119	70-130	2.57		20		
1,4-Dichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130	1.70		20		
Dichlorodifluoromethane (Freon 12)	7.42	2.0	µg/L	10.0		74.2	40-160	2.32		20		†
1,1-Dichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130	1.24		20		
1,2-Dichloroethane	8.60	1.0	µg/L	10.0		86.0	70-130	2.30		20		
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.834		20		
cis-1,2-Dichloroethylene	9.74	1.0	µg/L	10.0		97.4	70-130	0.412		20		
trans-1,2-Dichloroethylene	9.98	1.0	µg/L	10.0		99.8	70-130	0.400		20		
1,2-Dichloropropane	9.47	1.0	µg/L	10.0		94.7	70-130	5.14		20		
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130	1.14		20		
2,2-Dichloropropane	9.59	1.0	µg/L	10.0		95.9	70-130	0.104		20		
1,1-Dichloropropene	8.94	0.50	µg/L	10.0		89.4	70-130	0.335		20		
cis-1,3-Dichloropropene	11.2	0.40	µg/L	10.0		112	70-130	1.94		20		
trans-1,3-Dichloropropene	11.8	0.40	µg/L	10.0		118	70-130	0.594		20		
Diethyl Ether	12.7	2.0	µg/L	10.0		127	70-130	2.10		20		
Diisopropyl Ether (DIPE)	9.65	0.50	µg/L	10.0		96.5	70-130	3.66		20		
1,4-Dioxane	95.5	50	µg/L	100		95.5	40-160	3.47		20	V-16	†
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	2.46		20		
Hexachlorobutadiene	12.4	0.60	µg/L	10.0		124	70-130	1.28		20		
2-Hexanone (MBK)	93.6	10	µg/L	100		93.6	40-160	10.4		20		†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.0		116	70-130	1.28		20		
p-Isopropyltoluene (p-Cymene)	11.2	1.0	µg/L	10.0		112	70-130	1.68		20		
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0		103	70-130	5.12		20		
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130	0.174		20		
4-Methyl-2-pentanone (MIBK)	94.2	10	µg/L	100		94.2	40-160	6.57		20		†
Naphthalene	9.14	2.0	µg/L	10.0		91.4	70-130	6.66		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 B227205 - SW-846 5030B										
LCS Dup (B227205-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19						
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130	1.92	20	
Styrene	12.9	1.0	µg/L	10.0		129	70-130	0.0775	20	V-20
1,1,1,2-Tetrachloroethane	12.3	1.0	µg/L	10.0		123	70-130	2.97	20	
1,1,2,2-Tetrachloroethane	12.1	0.50	µg/L	10.0		121	70-130	7.73	20	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	1.75	20	
Tetrahydrofuran	9.26	2.0	µg/L	10.0		92.6	70-130	14.3	20	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	0.677	20	
1,2,3-Trichlorobenzene	10.5	2.0	µg/L	10.0		105	70-130	3.82	20	
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130	5.51	20	
1,1,1-Trichloroethane	9.00	1.0	µg/L	10.0		90.0	70-130	1.10	20	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	0.00	20	
Trichloroethylene	9.95	1.0	µg/L	10.0		99.5	70-130	4.04	20	
Trichlorofluoromethane (Freon 11)	9.27	2.0	µg/L	10.0		92.7	70-130	1.82	20	
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111	70-130	4.07	20	
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	1.79	20	
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130	3.18	20	
Vinyl Chloride	12.5	2.0	µg/L	10.0		125	70-130	6.70	20	
m+p Xylene	22.9	2.0	µg/L	20.0		114	70-130	2.20	20	
o-Xylene	12.0	1.0	µg/L	10.0		120	70-130	1.82	20	
Surrogate: 1,2-Dichloroethane-d4	*22.2*		µg/L	25.0		89.0	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	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 B227556 - SW-846 3510C										
Blank (B227556-BLK1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-34
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							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							

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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 B227556 - SW-846 3510C											
Blank (B227556-BLK1)				Prepared: 04/05/19 Analyzed: 04/06/19							
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*111*		µg/L	200		55.3	15-110				
Surrogate: Phenol-d6	*81.8*		µg/L	200		40.9	15-110				
Surrogate: Nitrobenzene-d5	*85.8*		µg/L	100		85.8	30-130				
Surrogate: 2-Fluorobiphenyl	*84.7*		µg/L	100		84.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*190*		µg/L	200		95.2	15-110				
Surrogate: p-Terphenyl-d14	*99.8*		µg/L	100		99.8	30-130				
LCS (B227556-BS1)				Prepared: 04/05/19 Analyzed: 04/06/19							
Acenaphthene	39.9	5.0	µg/L	50.0		79.8	40-140				
Acenaphthylene	39.9	5.0	µg/L	50.0		79.8	40-140				
Acetophenone	38.7	10	µg/L	50.0		77.4	40-140				
Aniline	35.4	5.0	µg/L	50.0		70.9	40-140			V-34	
Anthracene	40.9	5.0	µg/L	50.0		81.9	40-140				
Benzo(a)anthracene	41.6	5.0	µg/L	50.0		83.2	40-140				
Benzo(a)pyrene	43.7	5.0	µg/L	50.0		87.4	40-140				
Benzo(b)fluoranthene	40.6	5.0	µg/L	50.0		81.3	40-140				
Benzo(g,h,i)perylene	44.9	5.0	µg/L	50.0		89.7	40-140				
Benzo(k)fluoranthene	41.1	5.0	µg/L	50.0		82.2	40-140				
Bis(2-chloroethoxy)methane	46.6	10	µg/L	50.0		93.2	40-140				
Bis(2-chloroethyl)ether	40.6	10	µg/L	50.0		81.2	40-140				
Bis(2-chloroisopropyl)ether	45.4	10	µg/L	50.0		90.7	40-140				
Bis(2-Ethylhexyl)phthalate	45.9	10	µg/L	50.0		91.8	40-140				
4-Bromophenylphenylether	39.6	10	µg/L	50.0		79.3	40-140				
Butylbenzylphthalate	46.0	10	µg/L	50.0		91.9	40-140				
4-Chloroaniline	42.2	10	µg/L	50.0		84.5	15-140			V-34	†
2-Chloronaphthalene	34.6	10	µg/L	50.0		69.2	40-140				
2-Chlorophenol	39.2	10	µg/L	50.0		78.5	30-130				
Chrysene	42.3	5.0	µg/L	50.0		84.6	40-140				
Dibenz(a,h)anthracene	43.2	5.0	µg/L	50.0		86.5	40-140				
Dibenzofuran	40.2	5.0	µg/L	50.0		80.4	40-140				
Di-n-butylphthalate	40.6	10	µg/L	50.0		81.3	40-140				
1,2-Dichlorobenzene	33.2	5.0	µg/L	50.0		66.4	40-140				
1,3-Dichlorobenzene	31.8	5.0	µg/L	50.0		63.5	40-140				
1,4-Dichlorobenzene	32.8	5.0	µg/L	50.0		65.6	40-140				
3,3-Dichlorobenzidine	52.5	10	µg/L	50.0		105	40-140				
2,4-Dichlorophenol	42.7	10	µg/L	50.0		85.4	30-130				
Diethylphthalate	41.1	10	µg/L	50.0		82.3	40-140				
2,4-Dimethylphenol	39.1	10	µg/L	50.0		78.3	30-130				
Dimethylphthalate	43.9	10	µg/L	50.0		87.7	40-140				
2,4-Dinitrophenol	49.7	10	µg/L	50.0		99.3	15-140				†
2,4-Dinitrotoluene	45.2	10	µg/L	50.0		90.5	40-140				
2,6-Dinitrotoluene	45.7	10	µg/L	50.0		91.4	40-140				
Di-n-octylphthalate	43.9	10	µg/L	50.0		87.9	40-140				
1,2-Diphenylhydrazine/Azobenzene	38.6	10	µg/L	50.0		77.2	40-140				
Fluoranthene	40.9	5.0	µg/L	50.0		81.8	40-140				
Fluorene	41.2	5.0	µg/L	50.0		82.4	40-140				

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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 B227556 - SW-846 3510C											
LCS (B227556-BS1)				Prepared: 04/05/19 Analyzed: 04/06/19							
Hexachlorobenzene	38.6	10	µg/L	50.0		77.2	40-140				
Hexachlorobutadiene	34.0	10	µg/L	50.0		67.9	40-140				
Hexachloroethane	32.3	10	µg/L	50.0		64.6	40-140				
Indeno(1,2,3-cd)pyrene	44.6	5.0	µg/L	50.0		89.3	40-140				
Isophorone	41.3	10	µg/L	50.0		82.7	40-140				
2-Methylnaphthalene	41.4	5.0	µg/L	50.0		82.7	40-140				
2-Methylphenol	36.2	10	µg/L	50.0		72.3	30-130				
3/4-Methylphenol	33.2	10	µg/L	50.0		66.3	30-130				
Naphthalene	37.7	5.0	µg/L	50.0		75.4	40-140				
Nitrobenzene	37.6	10	µg/L	50.0		75.2	40-140				
2-Nitrophenol	44.0	10	µg/L	50.0		88.1	30-130				
4-Nitrophenol	23.0	10	µg/L	50.0		46.0	15-140				†
Pentachlorophenol	44.5	10	µg/L	50.0		89.1	30-130				
Phenanthrene	40.7	5.0	µg/L	50.0		81.4	40-140				
Phenol	18.8	10	µg/L	50.0		37.6	15-140				†
Pyrene	42.6	5.0	µg/L	50.0		85.2	40-140				
Pyridine	22.1	5.0	µg/L	50.0		44.2	10-140				†
1,2,4-Trichlorobenzene	35.6	5.0	µg/L	50.0		71.2	40-140				
2,4,5-Trichlorophenol	41.3	10	µg/L	50.0		82.6	30-130				
2,4,6-Trichlorophenol	41.6	10	µg/L	50.0		83.1	30-130				
Surrogate: 2-Fluorophenol	*104*		µg/L	200		51.8	15-110				
Surrogate: Phenol-d6	*78.4*		µg/L	200		39.2	15-110				
Surrogate: Nitrobenzene-d5	*84.4*		µg/L	100		84.4	30-130				
Surrogate: 2-Fluorobiphenyl	*84.2*		µg/L	100		84.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*197*		µg/L	200		98.5	15-110				
Surrogate: p-Terphenyl-d14	*92.2*		µg/L	100		92.2	30-130				
LCS Dup (B227556-BSD1)				Prepared: 04/05/19 Analyzed: 04/06/19							
Acenaphthene	39.4	5.0	µg/L	50.0		78.8	40-140	1.34	20		
Acenaphthylene	38.3	5.0	µg/L	50.0		76.5	40-140	4.20	20		
Acetophenone	37.5	10	µg/L	50.0		75.0	40-140	3.12	20		
Aniline	32.6	5.0	µg/L	50.0		65.1	40-140	8.50	20	V-34	
Anthracene	40.9	5.0	µg/L	50.0		81.8	40-140	0.0489	20		
Benzo(a)anthracene	41.7	5.0	µg/L	50.0		83.4	40-140	0.336	20		
Benzo(a)pyrene	43.0	5.0	µg/L	50.0		86.0	40-140	1.64	20		
Benzo(b)fluoranthene	39.9	5.0	µg/L	50.0		79.7	40-140	1.96	20		
Benzo(g,h,i)perylene	43.6	5.0	µg/L	50.0		87.3	40-140	2.76	20		
Benzo(k)fluoranthene	40.6	5.0	µg/L	50.0		81.1	40-140	1.40	20		
Bis(2-chloroethoxy)methane	45.9	10	µg/L	50.0		91.8	40-140	1.47	20		
Bis(2-chloroethyl)ether	38.8	10	µg/L	50.0		77.5	40-140	4.56	20		
Bis(2-chloroisopropyl)ether	43.3	10	µg/L	50.0		86.7	40-140	4.60	20		
Bis(2-Ethylhexyl)phthalate	46.3	10	µg/L	50.0		92.5	40-140	0.825	20		
4-Bromophenylphenylether	40.2	10	µg/L	50.0		80.3	40-140	1.33	20		
Butylbenzylphthalate	45.8	10	µg/L	50.0		91.6	40-140	0.349	20		
4-Chloroaniline	39.4	10	µg/L	50.0		78.8	15-140	6.88	20	V-34	†
2-Chloronaphthalene	32.5	10	µg/L	50.0		65.0	40-140	6.29	20		
2-Chlorophenol	36.2	10	µg/L	50.0		72.4	30-130	8.03	20		
Chrysene	41.9	5.0	µg/L	50.0		83.7	40-140	0.998	20		
Dibenz(a,h)anthracene	41.8	5.0	µg/L	50.0		83.5	40-140	3.46	20		
Dibenzofuran	40.5	5.0	µg/L	50.0		81.0	40-140	0.669	20		
Di-n-butylphthalate	42.1	10	µg/L	50.0		84.3	40-140	3.60	20		
1,2-Dichlorobenzene	32.6	5.0	µg/L	50.0		65.1	40-140	1.98	20		

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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 B227556 - SW-846 3510C										
LCS Dup (B227556-BSD1)				Prepared: 04/05/19 Analyzed: 04/06/19						
1,3-Dichlorobenzene	31.3	5.0	µg/L	50.0		62.6	40-140	1.55	20	
1,4-Dichlorobenzene	31.5	5.0	µg/L	50.0		63.0	40-140	4.04	20	
3,3-Dichlorobenzidine	51.5	10	µg/L	50.0		103	40-140	1.90	20	
2,4-Dichlorophenol	41.4	10	µg/L	50.0		82.9	30-130	3.00	20	
Diethylphthalate	41.0	10	µg/L	50.0		82.1	40-140	0.243	20	
2,4-Dimethylphenol	37.6	10	µg/L	50.0		75.3	30-130	3.91	20	
Dimethylphthalate	42.5	10	µg/L	50.0		85.1	40-140	3.06	20	
2,4-Dinitrophenol	50.2	10	µg/L	50.0		100	15-140	1.10	20	†
2,4-Dinitrotoluene	44.9	10	µg/L	50.0		89.8	40-140	0.776	20	
2,6-Dinitrotoluene	46.1	10	µg/L	50.0		92.2	40-140	0.784	20	
Di-n-octylphthalate	44.8	10	µg/L	50.0		89.6	40-140	2.01	20	
1,2-Diphenylhydrazine/Azobenzene	38.9	10	µg/L	50.0		77.8	40-140	0.852	20	
Fluoranthene	41.6	5.0	µg/L	50.0		83.1	40-140	1.58	20	
Fluorene	40.5	5.0	µg/L	50.0		81.1	40-140	1.66	20	
Hexachlorobenzene	39.4	10	µg/L	50.0		78.9	40-140	2.18	20	
Hexachlorobutadiene	34.7	10	µg/L	50.0		69.5	40-140	2.27	20	
Hexachloroethane	32.5	10	µg/L	50.0		65.0	40-140	0.648	20	
Indeno(1,2,3-cd)pyrene	43.7	5.0	µg/L	50.0		87.4	40-140	2.13	20	
Isophorone	40.8	10	µg/L	50.0		81.7	40-140	1.19	20	
2-Methylnaphthalene	40.6	5.0	µg/L	50.0		81.2	40-140	1.93	20	
2-Methylphenol	34.7	10	µg/L	50.0		69.4	30-130	4.21	20	
3/4-Methylphenol	31.5	10	µg/L	50.0		63.0	30-130	5.20	20	
Naphthalene	37.0	5.0	µg/L	50.0		74.1	40-140	1.71	20	
Nitrobenzene	37.2	10	µg/L	50.0		74.3	40-140	1.23	20	
2-Nitrophenol	43.0	10	µg/L	50.0		86.1	30-130	2.30	20	
4-Nitrophenol	23.1	10	µg/L	50.0		46.3	15-140	0.607	20	†
Pentachlorophenol	44.2	10	µg/L	50.0		88.5	30-130	0.676	20	
Phenanthrene	40.2	5.0	µg/L	50.0		80.4	40-140	1.29	20	
Phenol	17.6	10	µg/L	50.0		35.1	15-140	6.82	20	†
Pyrene	42.8	5.0	µg/L	50.0		85.6	40-140	0.375	20	
Pyridine	19.6	5.0	µg/L	50.0		39.2	10-140	12.0	50	† ‡
1,2,4-Trichlorobenzene	35.3	5.0	µg/L	50.0		70.6	40-140	0.846	20	
2,4,5-Trichlorophenol	40.1	10	µg/L	50.0		80.2	30-130	3.00	20	
2,4,6-Trichlorophenol	42.0	10	µg/L	50.0		84.1	30-130	1.15	20	
Surrogate: 2-Fluorophenol	*97.5*		µg/L	200		48.8	15-110			
Surrogate: Phenol-d6	*70.9*		µg/L	200		35.4	15-110			
Surrogate: Nitrobenzene-d5	*79.4*		µg/L	100		79.4	30-130			
Surrogate: 2-Fluorobiphenyl	*79.8*		µg/L	100		79.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*194*		µg/L	200		97.2	15-110			
Surrogate: p-Terphenyl-d14	*92.3*		µg/L	100		92.3	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 B227544 - SW-846 3510C										
Blank (B227544-BLK1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	*1.48*		µg/L	2.00		73.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.48*		µg/L	2.00		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.16*		µg/L	2.00		58.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		µg/L	2.00		59.3	30-150			
LCS (B227544-BS1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Aroclor-1016	0.42	0.20	µg/L	0.500		85.0	40-140			
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		84.6	40-140			
Aroclor-1260	0.40	0.20	µg/L	0.500		79.4	40-140			
Aroclor-1260 [2C]	0.41	0.20	µg/L	0.500		82.3	40-140			
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.75*		µg/L	2.00		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		70.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.43*		µg/L	2.00		71.6	30-150			
LCS Dup (B227544-BSD1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Aroclor-1016	0.41	0.20	µg/L	0.500		81.2	40-140	4.53	20	
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		83.2	40-140	1.67	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		76.2	40-140	4.17	20	
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		79.5	40-140	3.52	20	
Surrogate: Decachlorobiphenyl	*1.67*		µg/L	2.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.44*		µg/L	2.00		71.9	30-150			

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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 B227365 - SW-846 3005A										
Blank (B227365-BLK1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Copper	ND	5.0	µg/L							
Lead	ND	1.0	µg/L							
Manganese	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B227365-BS1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Antimony	503	10	µg/L	500		101	80-120			
Arsenic	501	4.0	µg/L	500		100	80-120			
Barium	497	100	µg/L	500		99.5	80-120			
Beryllium	468	4.0	µg/L	500		93.7	80-120			
Cadmium	503	5.0	µg/L	500		101	80-120			
Chromium	501	10	µg/L	500		100	80-120			
Copper	1050	50	µg/L	1000		105	80-120			
Lead	520	10	µg/L	500		104	80-120			
Manganese	529	10	µg/L	500		106	80-120			
Nickel	518	50	µg/L	500		104	80-120			
Selenium	492	50	µg/L	500		98.5	80-120			
Silver	473	5.0	µg/L	500		94.7	80-120			
Thallium	507	2.0	µg/L	500		101	80-120			
Vanadium	534	50	µg/L	500		107	80-120			
Zinc	1000	100	µg/L	1000		100	80-120			
LCS Dup (B227365-BSD1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Antimony	525	10	µg/L	500		105	80-120	4.31	20	
Arsenic	527	4.0	µg/L	500		105	80-120	4.99	20	
Barium	521	100	µg/L	500		104	80-120	4.62	20	
Beryllium	508	4.0	µg/L	500		102	80-120	8.08	20	
Cadmium	522	5.0	µg/L	500		104	80-120	3.84	20	
Chromium	522	10	µg/L	500		104	80-120	4.05	20	
Copper	1100	50	µg/L	1000		110	80-120	4.66	20	
Lead	537	10	µg/L	500		107	80-120	3.22	20	
Manganese	551	10	µg/L	500		110	80-120	4.06	20	
Nickel	542	50	µg/L	500		108	80-120	4.56	20	
Selenium	520	50	µg/L	500		104	80-120	5.40	20	
Silver	491	5.0	µg/L	500		98.3	80-120	3.74	20	
Thallium	523	2.0	µg/L	500		105	80-120	3.02	20	
Vanadium	562	50	µg/L	500		112	80-120	5.03	20	
Zinc	1040	100	µg/L	1000		104	80-120	3.65	20	

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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 B227365 - SW-846 3005A											
Duplicate (B227365-DUP1)		**Source: 19D0030-02**		Prepared: 04/03/19 Analyzed: 04/04/19							
Antimony	ND	1.0	µg/L		ND				NC	20	
Arsenic	ND	0.40	µg/L		ND				NC	20	
Barium	93.0	10	µg/L		93.2				0.253	20	
Beryllium	ND	0.40	µg/L		ND				NC	20	
Cadmium	0.529	0.50	µg/L		0.522				1.33	20	
Chromium	ND	1.0	µg/L		ND				NC	20	
Copper	5.13	5.0	µg/L		5.13				0.00828	20	
Lead	ND	1.0	µg/L		ND				NC	20	
Manganese	4870	100	µg/L		4360				11.0	20	
Nickel	16.8	5.0	µg/L		16.6				1.46	20	
Selenium	ND	5.0	µg/L		ND				NC	20	
Silver	ND	0.50	µg/L		ND				NC	20	
Thallium	ND	0.20	µg/L		ND				NC	20	
Vanadium	ND	5.0	µg/L		ND				NC	20	
Zinc	ND	10	µg/L		ND				NC	20	
Matrix Spike (B227365-MS1)		**Source: 19D0030-02**		Prepared: 04/03/19 Analyzed: 04/04/19							
Antimony	534	10	µg/L	500	ND	107		75-125			
Arsenic	532	4.0	µg/L	500	ND	106		75-125			
Barium	618	100	µg/L	500	93.2	105		75-125			
Beryllium	535	4.0	µg/L	500	ND	107		75-125			
Cadmium	526	5.0	µg/L	500	ND	105		75-125			
Chromium	513	10	µg/L	500	ND	103		75-125			
Copper	1060	50	µg/L	1000	ND	106		75-125			
Lead	551	10	µg/L	500	ND	110		75-125			
Manganese	5000	100	µg/L	500	4360	**128**	*	75-125			MS-19
Nickel	544	50	µg/L	500	16.6	105		75-125			
Selenium	520	50	µg/L	500	ND	104		75-125			
Silver	468	5.0	µg/L	500	ND	93.7		75-125			
Thallium	540	2.0	µg/L	500	ND	108		75-125			
Vanadium	585	50	µg/L	500	ND	117		75-125			
Zinc	1050	100	µg/L	1000	ND	105		75-125			
Batch B227561 - SW-846 7470A Prep											
Blank (B227561-BLK1)				Prepared & Analyzed: 04/08/19							
Mercury	ND	0.00010	mg/L								
LCS (B227561-BS1)				Prepared & Analyzed: 04/08/19							
Mercury	0.00379	0.00010	mg/L	0.00400		94.7		80-120			
LCS Dup (B227561-BSD1)				Prepared & Analyzed: 04/08/19							
Mercury	0.00381	0.00010	mg/L	0.00400		95.2		80-120	0.563	20	

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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 B227576 - SW-846 3005A Dissolved										
Blank (B227576-BLK1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Arsenic	ND	0.40	µg/L							
LCS (B227576-BS1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Arsenic	41.3	0.40	µg/L	40.0		103	80-120			

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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 B227184 - EPA 300.0											
Blank (B227184-BLK1)				Prepared & Analyzed: 04/02/19							
Nitrate as N	ND	0.10	mg/L								
Nitrite as N	ND	0.100	mg/L								
LCS (B227184-BS1)				Prepared & Analyzed: 04/02/19							
Nitrate as N	0.92	0.10	mg/L	1.00		92.2	90-110				
Nitrite as N	0.977	0.100	mg/L	1.00		97.7	90-110				
LCS Dup (B227184-BSD1)				Prepared & Analyzed: 04/02/19							
Nitrate as N	0.91	0.10	mg/L	1.00		91.5	90-110	0.752		20	
Nitrite as N	0.973	0.100	mg/L	1.00		97.3	90-110	0.410		20	
Batch B227187 - SM 21-22 4500 P E											
Blank (B227187-BLK1)				Prepared & Analyzed: 04/01/19							
Orthophosphate as P	ND	0.050	mg/L								
LCS (B227187-BS1)				Prepared & Analyzed: 04/01/19							
Orthophosphate as P	0.18	0.050	mg/L	0.170		105	72-122				
LCS Dup (B227187-BSD1)				Prepared & Analyzed: 04/01/19							
Orthophosphate as P	0.20	0.050	mg/L	0.170		118	72-122	**12.3**	*	10.6	R-05
Duplicate (B227187-DUP1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/01/19							
Orthophosphate as P	ND	0.050	mg/L		ND			NC		17	
Matrix Spike (B227187-MS1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/01/19							
Orthophosphate as P	0.30	0.050	mg/L	0.300	ND	101	55.9-148				
Batch B227200 - SM19-22 4500 NH3 C											
Blank (B227200-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Ammonia as N	ND	0.30	mg/L								
LCS (B227200-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Ammonia as N	4.8	0.30	mg/L	5.00		95.8	81.5-113				
LCS Dup (B227200-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Ammonia as N	4.8	0.30	mg/L	5.00		95.8	81.5-113	0.00		11.4	
Batch B227249 - SM 21-22 4500 P E											
Blank (B227249-BLK1)				Prepared & Analyzed: 04/02/19							
Phosphorus, Total	ND	0.050	mg/L								

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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 B227249 - SM 21-22 4500 P E												
LCS (B227249-BS1)				Prepared & Analyzed: 04/02/19								
Phosphorus, Total	0.21	0.050	mg/L	0.205		101		86.5-124				
LCS Dup (B227249-BSD1)				Prepared & Analyzed: 04/02/19								
Phosphorus, Total	0.24	0.050	mg/L	0.205		116		86.5-124	**13.8**	*	11	R-05
Duplicate (B227249-DUP1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/02/19								
Phosphorus, Total	ND	0.062	mg/L		ND				NC		38.5	
Matrix Spike (B227249-MS1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/02/19								
Phosphorus, Total	0.41	0.062	mg/L	0.300	ND	136		28.2-163				
Batch B227312 - SM19-22 4500-N Org B,C-NH3 C												
Blank (B227312-BLK1)				Prepared: 04/03/19 Analyzed: 04/04/19								
Total Kjeldahl Nitrogen	ND	1.0	mg/L									
LCS (B227312-BS1)				Prepared: 04/03/19 Analyzed: 04/04/19								
Total Kjeldahl Nitrogen	19	1.0	mg/L	20.0		95.8		75-117				
Batch B227319 - EPA 300.0												
Blank (B227319-BLK1)				Prepared & Analyzed: 04/02/19								
Nitrate as N	ND	0.10	mg/L									
LCS (B227319-BS1)				Prepared & Analyzed: 04/02/19								
Nitrate as N	0.98	0.10	mg/L	1.00		97.8		90-110				
LCS Dup (B227319-BSD1)				Prepared & Analyzed: 04/02/19								
Nitrate as N	1.0	0.10	mg/L	1.00		102		90-110	4.58		20	
Duplicate (B227319-DUP1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/02/19								
Nitrate as N	7.8	0.20	mg/L		7.8				0.213		20	
Matrix Spike (B227319-MS1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/02/19								
Nitrate as N	9.2	0.20	mg/L	2.00	7.8	**71.5**	*	80-120				MS-07
Batch B227332 - EPA 300.0												
Blank (B227332-BLK1)				Prepared & Analyzed: 04/02/19								
Nitrite as N	ND	0.100	mg/L									

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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 B227332 - EPA 300.0										
LCS (B227332-BS1)				Prepared & Analyzed: 04/02/19						
Nitrite as N	1.10	0.100	mg/L	1.00		110	90-110			
LCS Dup (B227332-BSD1)				Prepared & Analyzed: 04/02/19						
Nitrite as N	1.10	0.100	mg/L	1.00		110	90-110	0.100	20	
Duplicate (B227332-DUP1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/02/19						
Nitrite as N	0.792	0.100	mg/L		0.810			2.29	20	
Matrix Spike (B227332-MS1)	**Source: 19D0030-04**			Prepared & Analyzed: 04/02/19						
Nitrite as N	1.82	0.100	mg/L	1.00	0.810	101	80-120			
Batch B227352 - EPA 300.0										
Blank (B227352-BLK1)				Prepared & Analyzed: 04/05/19						
Chloride	ND	1.0	mg/L							
LCS (B227352-BS1)				Prepared & Analyzed: 04/05/19						
Chloride	5.1	1.0	mg/L	5.00		102	90-110			
LCS Dup (B227352-BSD1)				Prepared & Analyzed: 04/05/19						
Chloride	5.1	1.0	mg/L	5.00		103	90-110	0.224	20	
Duplicate (B227352-DUP2)	**Source: 19D0030-04**			Prepared & Analyzed: 04/05/19						
Chloride	140	10	mg/L		140			2.91	20	
Matrix Spike (B227352-MS2)	**Source: 19D0030-04**			Prepared & Analyzed: 04/05/19						
Chloride	180	10	mg/L	50.0	140	82.0	80-120			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B227544-BS1 Date(s) Analyzed: 04/06/2019 04/06/2019

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.41	2.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B227544-BSD1 Date(s) Analyzed: 04/06/2019 04/06/2019

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.40	5.1

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

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.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
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 may be associated with reported result.
V-20	Continuing calibration verification (CCV) 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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
W-17	Samples analyzed for Ortho phosphate were not filtered within 15 minutes of sampling.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Nitrite as N	NY,NC,NH,VA,ME,CT,RI
SM 21-22 4500 P E in Water	
Orthophosphate as P	CT,MA,NH,NY,RI,ME,VA
Phosphorus, Total	CT,MA,NH,NY,RI,NC,ME,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM19-22 4500-N Org B,C-NH3 C in Water	
Total Kjeldahl Nitrogen	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 6020B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
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
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
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
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
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
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

19D0030

con-test ANALYTICAL LABORATORY

JLH

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Vertex
Address: 100 N Washington St Boston MA
Phone: 781-917-5360
Project Name: River's Edge
Project Location: Wayland, MA
Project Number: 46047
Project Manager: K Sarson
Con-Test Quote Name/Number:
Invoice Recipient: K. Sarson
Sampled By: K. Sarson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5 Day ☒

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: EDD
CLP Like Data Pkg Required: ☐
Email To: ksarson@vertexeng.com
Fax To #:

	Diss Arsenic	Total MCP 14 Metals	8260	8270	PCB 8082	Ammo/Total N/Phos	Nitrate/ortho/chloride
# of Containers	1	1	3	2	2	1	1
Preservation Code	N	N	H	I	I	S	I
Container Code	P	P	V	A	A	P	P

ANALYSIS REQUESTED

Dissolved Metals Samples
☒ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	Diss Arsenic	Total MCP 14 Metals	8260	8270	PCB 8082	Ammo/Total N/Phos	Nitrate/ortho/chloride
1	V-103 (MW)	4/1/19	~~0915~~ 1320		X	GW				X			X	
2	V-101 (MW)	↓	~~1100~~ 0915		↓	↓		X	X	X	X	X	X	X
3	V-102 (MW)	↓	~~1320~~ 1100		↓	↓		X	X	X	X	X	X	X
4	V-105 (MW)	↓	1500		↓	↓		X	X	X	X	X	X	X

Comments:

sample 01 was moved to work order 19D0106 JLH 4/3/19, add Cu and Mn

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature) [signature]	4/1/19 1545
Received by: (signature) [signature]	4/1/19 1545
Relinquished by: (signature) [signature]	4/1/19 1945
Received by: (signature) [signature] 3.3 2.7 4-1-19	1945
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT
Other

Special Requirements
☒ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Vertex

Received By LR Date 4-1-19 Time 1945

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 3.3, 2.7 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Irma

Is there enough Volume? * T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? T On COC? F

Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic	7	16 oz Amb.	
HCL-	4+13 14	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	6	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass	6	Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

* No unpreserved container received for sample V-163 (MW)

Trip blank received not on COC

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 19D0030
Project Location: Wayland, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

19D0030-02 thru 19D0030-05

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D (X)	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX 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: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 04/08/19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 23, 2019

Kristen Sarson
Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114

Project Location: Wayland, MA
Client Job Number:
Project Number: 46047
Laboratory Work Order Number: 19D0106

Enclosed are results of analyses for samples received by the laboratory on April 2, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

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Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/23/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19D0106

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-103 (MW)	19D0106-01	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
V-106 (MW)	19D0106-02	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
V-104 (MW)	19D0106-03	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
MW-3	19D0106-04	Ground Water		EPA 300.0	
				SM 21-22 4500 P E	
				SM19-22 4500 NH3 C	
				SM19-22 4500-N Org B,C-NH3 C	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				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.

REVISED REPORT 04-23-19: Per client request dissolved Ni was added to sample 19D0106-02.

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EPA 300.0

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride

19D0106-03[V-104 (MW)], B227612-MS1

SM 21-22 4500 P E

Qualifications:

R-05

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:

Orthophosphate as P

B227283-BSD1

W-17

Samples analyzed for Ortho phosphate were not filtered within 15 minutes of sampling.

Analyte & Samples(s) Qualified:

Orthophosphate as P

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227283-DUP1, B227283-DUP2, B227283-MS1, B227283-MS2

SW-846 8260C

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Diethyl Ether

B227208-BS1, B227208-BSD1

Vinyl Chloride

B227208-BS1, B227208-BSD1

R-05

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:

1,1,2,2-Tetrachloroethane

19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227208-BLK1, B227208-BS1, B227208-BSD1, S034384-CCV1

Acetone

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227205-BLK1, B227205-BS1, B227205-BSD1, B227208-BLK1, B227208-BS1, B227208-BSD1, S034302-CCV1, S034384-CCV1

RL-07

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3]

1,2,4-Trichlorobenzene

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3]

1,2-Dibromo-3-chloropropane (DB

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3]

Carbon Disulfide

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3]

Methylene Chloride

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3]

Naphthalene

19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3]

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V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227208-BLK1, B227208-BS1, B227208-BSD1, S034384-CCV1

2-Butanone (MEK)
19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227208-BLK1, B227208-BS1, B227208-BSD1, S034384-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane
19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227205-BLK1, B227205-BS1, B227205-BSD1, B227208-BLK1, B227208-BS1, B227208-BSD1, S034302-CCV1, S034384-CCV1

V-20

Continuing calibration verification (CCV) 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:

Diethyl Ether
B227208-BS1, B227208-BSD1, S034384-CCV1

Styrene
B227205-BS1, B227205-BSD1, B227208-BS1, B227208-BSD1, S034302-CCV1, S034384-CCV1

Vinyl Chloride
B227208-BS1, B227208-BSD1, S034384-CCV1

SW-846 8270D

Qualifications:

R-05

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:

4-Chloroaniline
19D0106-04[MW-3], B227443-BLK1, B227443-BS1, B227443-BSD1

Phenol
19D0106-04[MW-3], B227443-BLK1, B227443-BS1, B227443-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], B227443-BLK1, B227443-BS1, B227443-BSD1, S034390-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline
19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227443-BLK1, B227443-BS1, B227443-BSD1, S034390-CCV1, S034392-CCV1

Aniline
19D0106-01[V-103 (MW)], 19D0106-02[V-106 (MW)], 19D0106-03[V-104 (MW)], 19D0106-04[MW-3], B227443-BLK1, B227443-BS1, B227443-BSD1, S034390-CCV1, S034392-CCV1

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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.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

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 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.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-103 (MW) | Sampled: 4/2/2019 07:30

Sample ID: 19D0106-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-103 (MW) | Sampled: 4/2/2019 07:30

Sample ID: 19D0106-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/3/19	4/3/19 15:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.8	70-130		4/3/19 15:39
Toluene-d8	99.0	70-130		4/3/19 15:39
4-Bromofluorobenzene	98.7	70-130		4/3/19 15:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-103 (MW) | Sampled: 4/2/2019 07:30

Sample ID: 19D0106-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Acenaphthylene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Acetophenone	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Aniline	ND	4.9	µg/L	1	V-34	SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Anthracene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Benzo(a)anthracene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Benzo(a)pyrene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Benzo(b)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Benzo(g,h,i)perylene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Benzo(k)fluoranthene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Bis(2-chloroethoxy)methane	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Bis(2-chloroethyl)ether	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Bis(2-chloroisopropyl)ether	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
4-Bromophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Butylbenzylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
4-Chloroaniline	ND	9.8	µg/L	1	V-34	SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2-Chloronaphthalene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2-Chlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Chrysene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Dibenz(a,h)anthracene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Di-n-butylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
1,2-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
1,3-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
1,4-Dichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
3,3-Dichlorobenzidine	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,4-Dichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Diethylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,4-Dimethylphenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Dimethylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,4-Dinitrophenol	ND	9.8	µg/L	1	V-05	SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,4-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,6-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Di-n-octylphthalate	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Fluoranthene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Fluorene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Hexachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Hexachlorobutadiene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Hexachloroethane	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Indeno(1,2,3-cd)pyrene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Isophorone	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2-Methylnaphthalene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-103 (MW) | Sampled: 4/2/2019 07:30

Sample ID: 19D0106-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
3/4-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Naphthalene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Nitrobenzene	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
4-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Pentachlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Phenanthrene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Phenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
Pyrene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
1,2,4-Trichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,4,5-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL
2,4,6-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	4/4/19	4/5/19 17:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.1	15-110		4/5/19 17:43
Phenol-d6	33.7	15-110		4/5/19 17:43
Nitrobenzene-d5	70.7	30-130		4/5/19 17:43
2-Fluorobiphenyl	73.4	30-130		4/5/19 17:43
2,4,6-Tribromophenol	71.9	15-110		4/5/19 17:43
p-Terphenyl-d14	86.7	30-130		4/5/19 17:43

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Date Received: 4/2/2019

Field Sample #: V-103 (MW) | Sampled: 4/2/2019 07:30

Sample ID: 19D0106-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1221 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1232 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1242 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1248 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1254 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1260 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1262 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH
Aroclor-1268 [1]	ND	0.17	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:25	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.1	30-150		4/8/19 10:25
Decachlorobiphenyl [2]	73.6	30-150		4/8/19 10:25
Tetrachloro-m-xylene [1]	75.6	30-150		4/8/19 10:25
Tetrachloro-m-xylene [2]	73.6	30-150		4/8/19 10:25

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Sample ID: 19D0106-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Arsenic	ND	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Barium	14	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Copper	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Lead	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Manganese	91	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:33	EJB
Nickel	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 14:12	QNW

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Sample Description:
Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-103 (MW)
Sampled: 4/2/2019 07:30

Sample ID: 19D0106-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.74	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 11:17	QNW

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Sample ID: 19D0106-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	mg/L	1		SM19-22 4500 NH3 C	4/2/19	4/3/19 10:00	EC
Chloride	230	10	mg/L	10		EPA 300.0	4/9/19	4/9/19 5:48	MMH
Nitrate as N	1.7	0.10	mg/L	1		EPA 300.0	4/3/19	4/3/19 15:48	IS
Nitrite as N	ND	0.100	mg/L	1		EPA 300.0	4/3/19	4/3/19 15:48	IS
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/2/19	4/2/19 18:30	IS
Phosphorus, Total	0.14	0.062	mg/L	1.25		SM 21-22 4500 P E	4/7/19	4/7/19 15:06	AIA
Total Kjeldahl Nitrogen	ND	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	1.7	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/9/19	4/9/19 7:21	LL

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
tert-Amyl Methyl Ether (TAME)	6.4	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
2-Butanone (MEK)	ND	10	µg/L	1	V-05	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH

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Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Methyl tert-Butyl Ether (MTBE)	14	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.0	70-130		4/5/19 6:32
Toluene-d8	98.3	70-130		4/5/19 6:32
4-Bromofluorobenzene	100	70-130		4/5/19 6:32

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Acenaphthylene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Acetophenone	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Aniline	ND	6.1	µg/L	1	V-34	SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Anthracene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Benzo(a)anthracene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Benzo(a)pyrene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Benzo(b)fluoranthene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Benzo(g,h,i)perylene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Benzo(k)fluoranthene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Bis(2-chloroethoxy)methane	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Bis(2-chloroethyl)ether	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Bis(2-chloroisopropyl)ether	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Bis(2-Ethylhexyl)phthalate	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
4-Bromophenylphenylether	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Butylbenzylphthalate	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
4-Chloroaniline	ND	12	µg/L	1	V-34	SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2-Chloronaphthalene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2-Chlorophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Chrysene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Dibenz(a,h)anthracene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Dibenzofuran	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Di-n-butylphthalate	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
1,2-Dichlorobenzene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
1,3-Dichlorobenzene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
1,4-Dichlorobenzene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
3,3-Dichlorobenzidine	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,4-Dichlorophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Diethylphthalate	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,4-Dimethylphenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Dimethylphthalate	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,4-Dinitrophenol	ND	12	µg/L	1	V-05	SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,4-Dinitrotoluene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,6-Dinitrotoluene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Di-n-octylphthalate	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Fluoranthene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Fluorene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Hexachlorobenzene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Hexachlorobutadiene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Hexachloroethane	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Indeno(1,2,3-cd)pyrene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Isophorone	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2-Methylnaphthalene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
3/4-Methylphenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Naphthalene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Nitrobenzene	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2-Nitrophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
4-Nitrophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Pentachlorophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Phenanthrene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Phenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
Pyrene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
1,2,4-Trichlorobenzene	ND	6.1	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,4,5-Trichlorophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL
2,4,6-Trichlorophenol	ND	12	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	51.5	15-110		4/5/19 18:09
Phenol-d6	39.8	15-110		4/5/19 18:09
Nitrobenzene-d5	73.1	30-130		4/5/19 18:09
2-Fluorobiphenyl	77.0	30-130		4/5/19 18:09
2,4,6-Tribromophenol	76.2	15-110		4/5/19 18:09
p-Terphenyl-d14	89.7	30-130		4/5/19 18:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1221 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1232 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1242 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1248 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1254 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1260 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1262 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH
Aroclor-1268 [1]	ND	0.12	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:38	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		4/8/19 10:38
Decachlorobiphenyl [2]	74.0	30-150		4/8/19 10:38
Tetrachloro-m-xylene [1]	77.2	30-150		4/8/19 10:38
Tetrachloro-m-xylene [2]	74.6	30-150		4/8/19 10:38

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Arsenic	1.6	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Barium	190	50	µg/L	5		SW-846 6020B	4/5/19	4/9/19 14:16	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Cadmium	3.0	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Chromium	2.8	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Copper	6.9	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Lead	1.6	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Manganese	5400	200	µg/L	200		SW-846 6020B	4/5/19	4/9/19 15:08	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:22	EJB
Nickel	110	25	µg/L	5		SW-846 6020B	4/5/19	4/9/19 14:16	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW
Zinc	33	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 12:58	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW)
Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	1.0	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 11:21	QNW
Nickel	110	10	µg/L	2		SW-846 6020B	4/5/19	4/23/19 9:09	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-106 (MW) | Sampled: 4/2/2019 09:30

Sample ID: 19D0106-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	2.0	0.30	mg/L	1		SM19-22 4500 NH3 C	4/5/19	4/6/19 11:58	KMV
Chloride	210	10	mg/L	10		EPA 300.0	4/9/19	4/9/19 6:03	MMH
Nitrate as N	35	1.0	mg/L	10		EPA 300.0	4/3/19	4/3/19 16:33	IS
Nitrite as N	0.302	0.100	mg/L	1		EPA 300.0	4/3/19	4/3/19 16:18	IS
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/2/19	4/2/19 18:30	IS
Phosphorus, Total	0.093	0.062	mg/L	1.25		SM 21-22 4500 P E	4/7/19	4/7/19 15:06	AIA
Total Kjeldahl Nitrogen	4.0	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	39	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/8/19	4/8/19 14:50	LL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
2-Butanone (MEK)	ND	10	µg/L	1	V-05	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 6:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.8	70-130		4/5/19 6:59
Toluene-d8	100	70-130		4/5/19 6:59
4-Bromofluorobenzene	102	70-130		4/5/19 6:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Acenaphthylene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Acetophenone	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Aniline	ND	5.5	µg/L	1	V-34	SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Anthracene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Benzo(a)anthracene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Benzo(a)pyrene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Benzo(b)fluoranthene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Benzo(g,h,i)perylene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Benzo(k)fluoranthene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Bis(2-chloroethoxy)methane	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Bis(2-chloroethyl)ether	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Bis(2-chloroisopropyl)ether	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
4-Bromophenylphenylether	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Butylbenzylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
4-Chloroaniline	ND	11	µg/L	1	V-34	SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2-Chloronaphthalene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2-Chlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Chrysene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Dibenz(a,h)anthracene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Dibenzofuran	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Di-n-butylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
1,2-Dichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
1,3-Dichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
1,4-Dichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
3,3-Dichlorobenzidine	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,4-Dichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Diethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,4-Dimethylphenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Dimethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,4-Dinitrophenol	ND	11	µg/L	1	V-05	SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,4-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,6-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Di-n-octylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Fluoranthene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Fluorene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Hexachlorobenzene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Hexachlorobutadiene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Hexachloroethane	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Indeno(1,2,3-cd)pyrene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Isophorone	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2-Methylnaphthalene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
3/4-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Naphthalene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Nitrobenzene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
4-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Pentachlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Phenanthrene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Phenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
Pyrene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
1,2,4-Trichlorobenzene	ND	5.5	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,4,5-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL
2,4,6-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/5/19 18:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.9	15-110		4/5/19 18:34
Phenol-d6	35.0	15-110		4/5/19 18:34
Nitrobenzene-d5	72.0	30-130		4/5/19 18:34
2-Fluorobiphenyl	75.9	30-130		4/5/19 18:34
2,4,6-Tribromophenol	74.9	15-110		4/5/19 18:34
p-Terphenyl-d14	88.2	30-130		4/5/19 18:34

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1221 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1232 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1242 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1248 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1254 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1260 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1262 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH
Aroclor-1268 [1]	ND	0.11	µg/L	1		SW-846 8082A	4/5/19	4/8/19 10:51	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	81.1	30-150		4/8/19 10:51	
Decachlorobiphenyl [2]	72.8	30-150		4/8/19 10:51	
Tetrachloro-m-xylene [1]	82.5	30-150		4/8/19 10:51	
Tetrachloro-m-xylene [2]	79.7	30-150		4/8/19 10:51	

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Arsenic	0.50	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Barium	14	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Copper	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Lead	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Manganese	95	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:35	EJB
Nickel	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:13	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA
Sample Description:
Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW)
Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.79	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:34	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: V-104 (MW) | Sampled: 4/2/2019 12:15

Sample ID: 19D0106-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	mg/L	1		SM19-22 4500 NH3 C	4/5/19	4/6/19 11:58	KMV
Chloride	26	1.0	mg/L	1	MS-07	EPA 300.0	4/9/19	4/9/19 6:18	MMH
Nitrate as N	2.1	0.10	mg/L	1		EPA 300.0	4/3/19	4/3/19 16:48	IS
Nitrite as N	ND	0.100	mg/L	1		EPA 300.0	4/3/19	4/3/19 16:48	IS
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/2/19	4/2/19 18:30	IS
Phosphorus, Total	ND	0.062	mg/L	1.25		SM 21-22 4500 P E	4/7/19	4/7/19 15:06	AIA
Total Kjeldahl Nitrogen	2.0	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	4.1	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/8/19	4/8/19 14:50	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
2-Butanone (MEK)	ND	10	µg/L	1	V-05	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Naphthalene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/4/19	4/5/19 7:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.8	70-130		4/5/19 7:26
Toluene-d8	99.1	70-130		4/5/19 7:26
4-Bromofluorobenzene	102	70-130		4/5/19 7:26

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Acenaphthylene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Acetophenone	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Aniline	ND	5.3	µg/L	1	V-34	SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Anthracene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Benzo(a)anthracene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Benzo(a)pyrene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Benzo(b)fluoranthene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Benzo(g,h,i)perylene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Benzo(k)fluoranthene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Bis(2-chloroethoxy)methane	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Bis(2-chloroethyl)ether	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Bis(2-chloroisopropyl)ether	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
4-Bromophenylphenylether	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Butylbenzylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
4-Chloroaniline	ND	11	µg/L	1	R-05, V-34	SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2-Chloronaphthalene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2-Chlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Chrysene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Dibenz(a,h)anthracene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Dibenzofuran	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Di-n-butylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
1,2-Dichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
1,3-Dichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
1,4-Dichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
3,3-Dichlorobenzidine	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,4-Dichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Diethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,4-Dimethylphenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Dimethylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,4-Dinitrophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,4-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,6-Dinitrotoluene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Di-n-octylphthalate	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Fluoranthene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Fluorene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Hexachlorobenzene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Hexachlorobutadiene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Hexachloroethane	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Indeno(1,2,3-cd)pyrene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Isophorone	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2-Methylnaphthalene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
3/4-Methylphenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Naphthalene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Nitrobenzene	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
4-Nitrophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Pentachlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Phenanthrene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Phenol	ND	11	µg/L	1	R-05	SW-846 8270D	4/4/19	4/6/19 17:13	BGL
Pyrene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
1,2,4-Trichlorobenzene	ND	5.3	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,4,5-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL
2,4,6-Trichlorophenol	ND	11	µg/L	1		SW-846 8270D	4/4/19	4/6/19 17:13	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.7	15-110		4/6/19 17:13
Phenol-d6	32.0	15-110		4/6/19 17:13
Nitrobenzene-d5	70.7	30-130		4/6/19 17:13
2-Fluorobiphenyl	67.9	30-130		4/6/19 17:13
2,4,6-Tribromophenol	78.4	15-110		4/6/19 17:13
p-Terphenyl-d14	83.7	30-130		4/6/19 17:13

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1221 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1232 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1242 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1248 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1254 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1260 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1262 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH
Aroclor-1268 [1]	ND	0.093	µg/L	1		SW-846 8082A	4/5/19	4/8/19 11:03	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.0	30-150		4/8/19 11:03
Decachlorobiphenyl [2]	67.6	30-150		4/8/19 11:03
Tetrachloro-m-xylene [1]	83.5	30-150		4/8/19 11:03
Tetrachloro-m-xylene [2]	80.4	30-150		4/8/19 11:03

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Arsenic	ND	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Barium	13	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Copper	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Lead	ND	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Manganese	73	1.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	4/8/19	4/8/19 14:41	EJB
Nickel	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Silver	ND	0.50	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:17	QNW

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.74	0.40	µg/L	1		SW-846 6020B	4/5/19	4/8/19 13:37	QNW

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Project Location: Wayland, MA | Sample Description: | Work Order: 19D0106

Date Received: 4/2/2019

Field Sample #: MW-3 | Sampled: 4/2/2019 14:35

Sample ID: 19D0106-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	mg/L	1		SM19-22 4500 NH3 C	4/5/19	4/6/19 11:58	KMV
Chloride	120	10	mg/L	10		EPA 300.0	4/9/19	4/9/19 7:04	MMH
Nitrate as N	1.5	0.10	mg/L	1		EPA 300.0	4/3/19	4/3/19 17:49	IS
Nitrite as N	ND	0.100	mg/L	1		EPA 300.0	4/3/19	4/3/19 17:49	IS
Orthophosphate as P	ND	0.050	mg/L	1	W-17	SM 21-22 4500 P E	4/2/19	4/2/19 18:30	IS
Phosphorus, Total	ND	0.062	mg/L	1.25		SM 21-22 4500 P E	4/7/19	4/7/19 15:06	AIA
Total Kjeldahl Nitrogen	2.0	1.0	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/3/19	4/4/19 9:45	EC
Total Nitrogen	3.5	0.050	mg/L	1		SM19-22 4500-N Org B,C-NH3 C	4/8/19	4/8/19 14:50	LL

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Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227277	10.0	10.0	04/03/19
19D0106-02 [V-106 (MW)]	B227277	10.0	10.0	04/03/19
19D0106-03 [V-104 (MW)]	B227277	10.0	10.0	04/03/19
19D0106-04 [MW-3]	B227277	10.0	10.0	04/03/19

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227612	10.0	10.0	04/09/19
19D0106-02 [V-106 (MW)]	B227612	10.0	10.0	04/09/19
19D0106-03 [V-104 (MW)]	B227612	10.0	10.0	04/09/19
19D0106-04 [MW-3]	B227612	10.0	10.0	04/09/19

SM 21-22 4500 P E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227283	50.0	50.0	04/02/19
19D0106-02 [V-106 (MW)]	B227283	50.0	50.0	04/02/19
19D0106-03 [V-104 (MW)]	B227283	50.0	50.0	04/02/19
19D0106-04 [MW-3]	B227283	50.0	50.0	04/02/19

SM 21-22 4500 P E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227568	50.0	50.0	04/07/19
19D0106-02 [V-106 (MW)]	B227568	50.0	50.0	04/07/19
19D0106-03 [V-104 (MW)]	B227568	50.0	50.0	04/07/19
19D0106-04 [MW-3]	B227568	50.0	50.0	04/07/19

SM19-22 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227200	100	100	04/02/19

SM19-22 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-02 [V-106 (MW)]	B227529	100	100	04/05/19
19D0106-03 [V-104 (MW)]	B227529	100	100	04/05/19
19D0106-04 [MW-3]	B227529	100	100	04/05/19

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227312	25.0	25.0	04/03/19
19D0106-02 [V-106 (MW)]	B227312	25.0	25.0	04/03/19
19D0106-03 [V-104 (MW)]	B227312	25.0	25.0	04/03/19

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Sample Extraction Data

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-04 [MW-3]	B227312	25.0	25.0	04/03/19

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-02 [V-106 (MW)]	B227705	50.0	50.0	04/08/19
19D0106-03 [V-104 (MW)]	B227705	50.0	50.0	04/08/19
19D0106-04 [MW-3]	B227705	50.0	50.0	04/08/19

SM19-22 4500-N Org B,C-NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227750	50.0	50.0	04/09/19

Prep Method: SW-846 3005A-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227554	50.0	50.0	04/05/19
19D0106-02 [V-106 (MW)]	B227554	50.0	50.0	04/05/19
19D0106-03 [V-104 (MW)]	B227554	50.0	50.0	04/05/19
19D0106-04 [MW-3]	B227554	50.0	50.0	04/05/19

Prep Method: SW-846 3005A Dissolved-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227576	10.0	10.0	04/05/19
19D0106-02 [V-106 (MW)]	B227576	10.0	10.0	04/05/19
19D0106-03 [V-104 (MW)]	B227576	10.0	10.0	04/05/19
19D0106-04 [MW-3]	B227576	10.0	10.0	04/05/19

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227561	6.00	6.00	04/08/19
19D0106-02 [V-106 (MW)]	B227561	6.00	6.00	04/08/19
19D0106-03 [V-104 (MW)]	B227561	6.00	6.00	04/08/19
19D0106-04 [MW-3]	B227561	6.00	6.00	04/08/19

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227544	120	2.00	04/05/19
19D0106-02 [V-106 (MW)]	B227544	215	2.50	04/05/19
19D0106-03 [V-104 (MW)]	B227544	235	2.50	04/05/19
19D0106-04 [MW-3]	B227544	270	2.50	04/05/19

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Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227205	5	5.00	04/03/19

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-02 [V-106 (MW)]	B227208	5	5.00	04/04/19
19D0106-03 [V-104 (MW)]	B227208	5	5.00	04/04/19
19D0106-04 [MW-3]	B227208	5	5.00	04/04/19

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19D0106-01 [V-103 (MW)]	B227443	1020	1.00	04/04/19
19D0106-02 [V-106 (MW)]	B227443	820	1.00	04/04/19
19D0106-03 [V-104 (MW)]	B227443	910	1.00	04/04/19
19D0106-04 [MW-3]	B227443	940	1.00	04/04/19

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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 B227205 - SW-846 5030B										
Blank (B227205-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19						
Acetone	ND	10	µg/L							R-05
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							
2-Butanone (MEK)	ND	10	µg/L							
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							
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	0.50	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	0.60	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 B227205 - SW-846 5030B											
Blank (B227205-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19							
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	*22.0*		µg/L	25.0		87.8	70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.5	70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.4	70-130				
LCS (B227205-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Acetone	148	10	µg/L	100		148	40-160			L-14, R-05	†
tert-Amyl Methyl Ether (TAME)	9.79	0.50	µg/L	10.0		97.9	70-130				
Benzene	9.61	1.0	µg/L	10.0		96.1	70-130				
Bromobenzene	11.9	1.0	µg/L	10.0		119	70-130				
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130				
Bromodichloromethane	10.4	1.0	µg/L	10.0		104	70-130				
Bromoform	12.3	1.0	µg/L	10.0		123	70-130				
Bromomethane	7.28	2.0	µg/L	10.0		72.8	40-160				†
2-Butanone (MEK)	92.0	10	µg/L	100		92.0	40-160				†
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130				
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101	70-130				
Carbon Disulfide	12.1	5.0	µg/L	10.0		121	70-130				
Carbon Tetrachloride	9.40	1.0	µg/L	10.0		94.0	70-130				
Chlorobenzene	12.4	1.0	µg/L	10.0		124	70-130				
Chlorodibromomethane	11.6	0.50	µg/L	10.0		116	70-130				
Chloroethane	11.2	2.0	µg/L	10.0		112	70-130				
Chloroform	9.49	2.0	µg/L	10.0		94.9	70-130				
Chloromethane	7.67	2.0	µg/L	10.0		76.7	40-160				†
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130				
4-Chlorotoluene	12.2	1.0	µg/L	10.0		122	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.73	2.0	µg/L	10.0		87.3	70-130				
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130				
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130				
1,2-Dichlorobenzene	12.1	1.0	µg/L	10.0		121	70-130				
1,3-Dichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130				
1,4-Dichlorobenzene	11.9	1.0	µg/L	10.0		119	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 B227205 - SW-846 5030B											
LCS (B227205-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Dichlorodifluoromethane (Freon 12)	7.25	2.0	µg/L	10.0		72.5	40-160				†
1,1-Dichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130				
1,2-Dichloroethane	8.80	1.0	µg/L	10.0		88.0	70-130				
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130				
cis-1,2-Dichloroethylene	9.70	1.0	µg/L	10.0		97.0	70-130				
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130				
1,2-Dichloropropane	9.97	1.0	µg/L	10.0		99.7	70-130				
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130				
2,2-Dichloropropane	9.60	1.0	µg/L	10.0		96.0	70-130				
1,1-Dichloropropene	8.97	0.50	µg/L	10.0		89.7	70-130				
cis-1,3-Dichloropropene	11.5	0.40	µg/L	10.0		115	70-130				
trans-1,3-Dichloropropene	11.7	0.40	µg/L	10.0		117	70-130				
Diethyl Ether	13.0	2.0	µg/L	10.0		130	70-130				
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0		100	70-130				
1,4-Dioxane	92.3	50	µg/L	100		92.3	40-160			V-16	†
Ethylbenzene	11.5	1.0	µg/L	10.0		115	70-130				
Hexachlorobutadiene	12.6	0.60	µg/L	10.0		126	70-130				
2-Hexanone (MBK)	104	10	µg/L	100		104	40-160				†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118	70-130				
p-Isopropyltoluene (p-Cymene)	11.4	1.0	µg/L	10.0		114	70-130				
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130				
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130				
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	40-160				†
Naphthalene	9.77	2.0	µg/L	10.0		97.7	70-130				
n-Propylbenzene	11.6	1.0	µg/L	10.0		116	70-130				
Styrene	12.9	1.0	µg/L	10.0		129	70-130			V-20	
1,1,1,2-Tetrachloroethane	12.6	1.0	µg/L	10.0		126	70-130				
1,1,2,2-Tetrachloroethane	13.0	0.50	µg/L	10.0		130	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Tetrahydrofuran	10.7	2.0	µg/L	10.0		107	70-130				
Toluene	10.4	1.0	µg/L	10.0		104	70-130				
1,2,3-Trichlorobenzene	10.9	2.0	µg/L	10.0		109	70-130				
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130				
1,1,1-Trichloroethane	9.10	1.0	µg/L	10.0		91.0	70-130				
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130				
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130				
Trichlorofluoromethane (Freon 11)	9.44	2.0	µg/L	10.0		94.4	70-130				
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130				
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.0		113	70-130				
1,3,5-Trimethylbenzene	11.8	1.0	µg/L	10.0		118	70-130				
Vinyl Chloride	11.7	2.0	µg/L	10.0		117	70-130				
m+p Xylene	23.4	2.0	µg/L	20.0		117	70-130				
o-Xylene	12.2	1.0	µg/L	10.0		122	70-130				
Surrogate: 1,2-Dichloroethane-d4	*21.9*		µg/L	25.0		87.6	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	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 B227205 - SW-846 5030B												
LCS Dup (B227205-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19								
Acetone	109	10	µg/L	100		109	40-160	**29.9**	*	20	R-05	†
tert-Amyl Methyl Ether (TAME)	9.12	0.50	µg/L	10.0		91.2	70-130	7.09		20		
Benzene	9.57	1.0	µg/L	10.0		95.7	70-130	0.417		20		
Bromobenzene	11.4	1.0	µg/L	10.0		114	70-130	3.86		20		
Bromochloromethane	10.0	1.0	µg/L	10.0		100	70-130	0.199		20		
Bromodichloromethane	10.4	1.0	µg/L	10.0		104	70-130	0.577		20		
Bromoform	12.0	1.0	µg/L	10.0		120	70-130	2.47		20		
Bromomethane	7.86	2.0	µg/L	10.0		78.6	40-160	7.66		20		†
2-Butanone (MEK)	81.2	10	µg/L	100		81.2	40-160	12.5		20		†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	0.912		20		
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130	1.06		20		
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	0.725		20		
tert-Butyl Ethyl Ether (TBEE)	9.46	0.50	µg/L	10.0		94.6	70-130	6.35		20		
Carbon Disulfide	11.9	5.0	µg/L	10.0		119	70-130	1.67		20		
Carbon Tetrachloride	9.35	1.0	µg/L	10.0		93.5	70-130	0.533		20		
Chlorobenzene	12.2	1.0	µg/L	10.0		122	70-130	1.30		20		
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130	1.91		20		
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130	5.71		20		
Chloroform	9.51	2.0	µg/L	10.0		95.1	70-130	0.211		20		
Chloromethane	7.64	2.0	µg/L	10.0		76.4	40-160	0.392		20		†
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	1.87		20		
4-Chlorotoluene	11.9	1.0	µg/L	10.0		119	70-130	2.99		20		
1,2-Dibromo-3-chloropropane (DBCP)	8.02	2.0	µg/L	10.0		80.2	70-130	8.48		20		
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	1.91		20		
Dibromomethane	10.8	1.0	µg/L	10.0		108	70-130	1.66		20		
1,2-Dichlorobenzene	12.0	1.0	µg/L	10.0		120	70-130	0.747		20		
1,3-Dichlorobenzene	11.9	1.0	µg/L	10.0		119	70-130	2.57		20		
1,4-Dichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130	1.70		20		
Dichlorodifluoromethane (Freon 12)	7.42	2.0	µg/L	10.0		74.2	40-160	2.32		20		†
1,1-Dichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130	1.24		20		
1,2-Dichloroethane	8.60	1.0	µg/L	10.0		86.0	70-130	2.30		20		
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.834		20		
cis-1,2-Dichloroethylene	9.74	1.0	µg/L	10.0		97.4	70-130	0.412		20		
trans-1,2-Dichloroethylene	9.98	1.0	µg/L	10.0		99.8	70-130	0.400		20		
1,2-Dichloropropane	9.47	1.0	µg/L	10.0		94.7	70-130	5.14		20		
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130	1.14		20		
2,2-Dichloropropane	9.59	1.0	µg/L	10.0		95.9	70-130	0.104		20		
1,1-Dichloropropene	8.94	0.50	µg/L	10.0		89.4	70-130	0.335		20		
cis-1,3-Dichloropropene	11.2	0.40	µg/L	10.0		112	70-130	1.94		20		
trans-1,3-Dichloropropene	11.8	0.40	µg/L	10.0		118	70-130	0.594		20		
Diethyl Ether	12.7	2.0	µg/L	10.0		127	70-130	2.10		20		
Diisopropyl Ether (DIPE)	9.65	0.50	µg/L	10.0		96.5	70-130	3.66		20		
1,4-Dioxane	95.5	50	µg/L	100		95.5	40-160	3.47		20	V-16	†
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	2.46		20		
Hexachlorobutadiene	12.4	0.60	µg/L	10.0		124	70-130	1.28		20		
2-Hexanone (MBK)	93.6	10	µg/L	100		93.6	40-160	10.4		20		†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.0		116	70-130	1.28		20		
p-Isopropyltoluene (p-Cymene)	11.2	1.0	µg/L	10.0		112	70-130	1.68		20		
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0		103	70-130	5.12		20		
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130	0.174		20		
4-Methyl-2-pentanone (MIBK)	94.2	10	µg/L	100		94.2	40-160	6.57		20		†
Naphthalene	9.14	2.0	µg/L	10.0		91.4	70-130	6.66		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 B227205 - SW-846 5030B										
LCS Dup (B227205-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19						
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130	1.92	20	
Styrene	12.9	1.0	µg/L	10.0		129	70-130	0.0775	20	V-20
1,1,1,2-Tetrachloroethane	12.3	1.0	µg/L	10.0		123	70-130	2.97	20	
1,1,2,2-Tetrachloroethane	12.1	0.50	µg/L	10.0		121	70-130	7.73	20	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	1.75	20	
Tetrahydrofuran	9.26	2.0	µg/L	10.0		92.6	70-130	14.3	20	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	0.677	20	
1,2,3-Trichlorobenzene	10.5	2.0	µg/L	10.0		105	70-130	3.82	20	
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130	5.51	20	
1,1,1-Trichloroethane	9.00	1.0	µg/L	10.0		90.0	70-130	1.10	20	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	0.00	20	
Trichloroethylene	9.95	1.0	µg/L	10.0		99.5	70-130	4.04	20	
Trichlorofluoromethane (Freon 11)	9.27	2.0	µg/L	10.0		92.7	70-130	1.82	20	
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111	70-130	4.07	20	
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	1.79	20	
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130	3.18	20	
Vinyl Chloride	12.5	2.0	µg/L	10.0		125	70-130	6.70	20	
m+p Xylene	22.9	2.0	µg/L	20.0		114	70-130	2.20	20	
o-Xylene	12.0	1.0	µg/L	10.0		120	70-130	1.82	20	
Surrogate: 1,2-Dichloroethane-d4	*22.2*		µg/L	25.0		89.0	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			
Batch B227208 - SW-846 5030B										
Blank (B227208-BLK1)				Prepared: 04/02/19 Analyzed: 04/05/19						
Acetone	ND	10	µg/L							R-05
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							
2-Butanone (MEK)	ND	10	µg/L							V-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							
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							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B227208 - SW-846 5030B										
Blank (B227208-BLK1)				Prepared: 04/02/19 Analyzed: 04/05/19						
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							V-05
1,1-Dichloropropene	ND	0.50	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	0.60	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							
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							R-05
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	*22.9*		µg/L	25.0		91.4	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102	70-130			

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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 B227208 - SW-846 5030B												
LCS (B227208-BS1)				Prepared: 04/02/19 Analyzed: 04/05/19								
Acetone	118	10	µg/L	100		118		40-160			R-05	†
tert-Amyl Methyl Ether (TAME)	11.6	0.50	µg/L	10.0		116		70-130				
Benzene	9.82	1.0	µg/L	10.0		98.2		70-130				
Bromobenzene	11.8	1.0	µg/L	10.0		118		70-130				
Bromochloromethane	10.4	1.0	µg/L	10.0		104		70-130				
Bromodichloromethane	10.6	1.0	µg/L	10.0		106		70-130				
Bromoform	11.6	1.0	µg/L	10.0		116		70-130				
Bromomethane	7.42	2.0	µg/L	10.0		74.2		40-160				†
2-Butanone (MEK)	80.1	10	µg/L	100		80.1		40-160			V-05	†
n-Butylbenzene	11.4	1.0	µg/L	10.0		114		70-130				
sec-Butylbenzene	11.5	1.0	µg/L	10.0		115		70-130				
tert-Butylbenzene	11.4	1.0	µg/L	10.0		114		70-130				
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116		70-130				
Carbon Disulfide	12.8	5.0	µg/L	10.0		128		70-130				
Carbon Tetrachloride	9.98	1.0	µg/L	10.0		99.8		70-130				
Chlorobenzene	12.0	1.0	µg/L	10.0		120		70-130				
Chlorodibromomethane	12.1	0.50	µg/L	10.0		121		70-130				
Chloroethane	11.3	2.0	µg/L	10.0		113		70-130				
Chloroform	10.0	2.0	µg/L	10.0		100		70-130				
Chloromethane	8.27	2.0	µg/L	10.0		82.7		40-160				†
2-Chlorotoluene	11.3	1.0	µg/L	10.0		113		70-130				
4-Chlorotoluene	12.5	1.0	µg/L	10.0		125		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.33	2.0	µg/L	10.0		83.3		70-130				
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.0		112		70-130				
Dibromomethane	11.2	1.0	µg/L	10.0		112		70-130				
1,2-Dichlorobenzene	12.2	1.0	µg/L	10.0		122		70-130				
1,3-Dichlorobenzene	11.9	1.0	µg/L	10.0		119		70-130				
1,4-Dichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130				
Dichlorodifluoromethane (Freon 12)	7.30	2.0	µg/L	10.0		73.0		40-160				†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102		70-130				
1,2-Dichloroethane	9.32	1.0	µg/L	10.0		93.2		70-130				
1,1-Dichloroethylene	12.0	1.0	µg/L	10.0		120		70-130				
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103		70-130				
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130				
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100		70-130				
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107		70-130				
2,2-Dichloropropane	7.49	1.0	µg/L	10.0		74.9		70-130			V-05	
1,1-Dichloropropene	9.62	0.50	µg/L	10.0		96.2		70-130				
cis-1,3-Dichloropropene	11.4	0.40	µg/L	10.0		114		70-130				
trans-1,3-Dichloropropene	11.9	0.40	µg/L	10.0		119		70-130				
Diethyl Ether	14.1	2.0	µg/L	10.0		**141**	*	70-130			V-20, L-02	
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0		107		70-130				
1,4-Dioxane	83.2	50	µg/L	100		83.2		40-160			V-16	†
Ethylbenzene	11.4	1.0	µg/L	10.0		114		70-130				
Hexachlorobutadiene	12.0	0.60	µg/L	10.0		120		70-130				
2-Hexanone (MBK)	93.4	10	µg/L	100		93.4		40-160				†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118		70-130				
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115		70-130				
Methyl tert-Butyl Ether (MTBE)	11.9	1.0	µg/L	10.0		119		70-130				
Methylene Chloride	12.7	5.0	µg/L	10.0		127		70-130				
4-Methyl-2-pentanone (MIBK)	96.0	10	µg/L	100		96.0		40-160				†
Naphthalene	9.97	2.0	µg/L	10.0		99.7		70-130				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B227208 - SW-846 5030B													
LCS (B227208-BS1)				Prepared: 04/02/19 Analyzed: 04/05/19									
n-Propylbenzene	11.9	1.0	µg/L	10.0		119		70-130					
Styrene	13.0	1.0	µg/L	10.0		130		70-130				V-20	
1,1,1,2-Tetrachloroethane	12.5	1.0	µg/L	10.0		125		70-130					
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113		70-130				R-05	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106		70-130					
Tetrahydrofuran	10.0	2.0	µg/L	10.0		100		70-130					
Toluene	10.5	1.0	µg/L	10.0		105		70-130					
1,2,3-Trichlorobenzene	10.7	2.0	µg/L	10.0		107		70-130					
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130					
1,1,1-Trichloroethane	9.84	1.0	µg/L	10.0		98.4		70-130					
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114		70-130					
Trichloroethylene	10.4	1.0	µg/L	10.0		104		70-130					
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101		70-130					
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106		70-130					
1,2,4-Trimethylbenzene	11.5	1.0	µg/L	10.0		115		70-130					
1,3,5-Trimethylbenzene	11.9	1.0	µg/L	10.0		119		70-130					
Vinyl Chloride	21.0	2.0	µg/L	10.0		**210**	*	70-130				L-02, V-20	
m+p Xylene	23.3	2.0	µg/L	20.0		116		70-130					
o-Xylene	12.1	1.0	µg/L	10.0		121		70-130					
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.0		93.6		70-130					
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8		70-130					
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		106		70-130					
LCS Dup (B227208-BSD1)				Prepared: 04/02/19 Analyzed: 04/05/19									
Acetone	157	10	µg/L	100		157		40-160	**28.5**	*	20	L-14, R-05	†
tert-Amyl Methyl Ether (TAME)	11.4	0.50	µg/L	10.0		114		70-130	1.91		20		
Benzene	9.53	1.0	µg/L	10.0		95.3		70-130	3.00		20		
Bromobenzene	11.4	1.0	µg/L	10.0		114		70-130	3.61		20		
Bromochloromethane	10.3	1.0	µg/L	10.0		103		70-130	0.483		20		
Bromodichloromethane	10.3	1.0	µg/L	10.0		103		70-130	2.77		20		
Bromoform	11.6	1.0	µg/L	10.0		116		70-130	0.430		20		
Bromomethane	8.05	2.0	µg/L	10.0		80.5		40-160	8.14		20		†
2-Butanone (MEK)	87.8	10	µg/L	100		87.8		40-160	9.08		20	V-05	†
n-Butylbenzene	10.8	1.0	µg/L	10.0		108		70-130	5.51		20		
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130	2.73		20		
tert-Butylbenzene	10.9	1.0	µg/L	10.0		109		70-130	4.49		20		
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116		70-130	0.345		20		
Carbon Disulfide	12.1	5.0	µg/L	10.0		121		70-130	5.06		20		
Carbon Tetrachloride	9.66	1.0	µg/L	10.0		96.6		70-130	3.26		20		
Chlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	3.90		20		
Chlorodibromomethane	11.7	0.50	µg/L	10.0		117		70-130	3.27		20		
Chloroethane	11.6	2.0	µg/L	10.0		116		70-130	2.88		20		
Chloroform	9.79	2.0	µg/L	10.0		97.9		70-130	2.32		20		
Chloromethane	7.95	2.0	µg/L	10.0		79.5		40-160	3.95		20		†
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107		70-130	5.65		20		
4-Chlorotoluene	11.7	1.0	µg/L	10.0		117		70-130	6.35		20		
1,2-Dibromo-3-chloropropane (DBCP)	8.22	2.0	µg/L	10.0		82.2		70-130	1.33		20		
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111		70-130	1.17		20		
Dibromomethane	11.0	1.0	µg/L	10.0		110		70-130	1.98		20		
1,2-Dichlorobenzene	11.8	1.0	µg/L	10.0		118		70-130	3.26		20		
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130	2.30		20		
1,4-Dichlorobenzene	11.3	1.0	µg/L	10.0		113		70-130	1.76		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 B227208 - SW-846 5030B													
LCS Dup (B227208-BSD1)				Prepared: 04/02/19 Analyzed: 04/05/19									
Dichlorodifluoromethane (Freon 12)	6.91	2.0	µg/L	10.0		69.1		40-160	5.49		20	L-14	†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100		70-130	1.49		20		
1,2-Dichloroethane	9.07	1.0	µg/L	10.0		90.7		70-130	2.72		20		
1,1-Dichloroethylene	11.7	1.0	µg/L	10.0		117		70-130	2.19		20		
cis-1,2-Dichloroethylene	9.90	1.0	µg/L	10.0		99.0		70-130	3.86		20		
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104		70-130	4.34		20		
1,2-Dichloropropane	9.62	1.0	µg/L	10.0		96.2		70-130	3.87		20		
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108		70-130	0.746		20		
2,2-Dichloropropane	7.20	1.0	µg/L	10.0		72.0		70-130	3.95		20	V-05	
1,1-Dichloropropene	9.46	0.50	µg/L	10.0		94.6		70-130	1.68		20		
cis-1,3-Dichloropropene	10.9	0.40	µg/L	10.0		109		70-130	4.93		20		
trans-1,3-Dichloropropene	11.6	0.40	µg/L	10.0		116		70-130	2.39		20		
Diethyl Ether	14.2	2.0	µg/L	10.0		**142**	*	70-130	0.988		20	V-20, L-02	
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103		70-130	3.24		20		
1,4-Dioxane	88.1	50	µg/L	100		88.1		40-160	5.75		20	V-16	†
Ethylbenzene	11.0	1.0	µg/L	10.0		110		70-130	3.75		20		
Hexachlorobutadiene	11.6	0.60	µg/L	10.0		116		70-130	2.88		20		
2-Hexanone (MBK)	97.9	10	µg/L	100		97.9		40-160	4.69		20		†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113		70-130	4.59		20		
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110		70-130	4.53		20		
Methyl tert-Butyl Ether (MTBE)	11.8	1.0	µg/L	10.0		118		70-130	1.01		20		
Methylene Chloride	12.6	5.0	µg/L	10.0		126		70-130	0.793		20		
4-Methyl-2-pentanone (MIBK)	93.9	10	µg/L	100		93.9		40-160	2.31		20		†
Naphthalene	9.57	2.0	µg/L	10.0		95.7		70-130	4.09		20		
n-Propylbenzene	11.3	1.0	µg/L	10.0		113		70-130	5.17		20		
Styrene	12.7	1.0	µg/L	10.0		127		70-130	2.65		20	V-20	
1,1,1,2-Tetrachloroethane	12.2	1.0	µg/L	10.0		122		70-130	2.35		20		
1,1,2,2-Tetrachloroethane	9.07	0.50	µg/L	10.0		90.7		70-130	**21.8**	*	20	R-05	
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104		70-130	2.67		20		
Tetrahydrofuran	9.86	2.0	µg/L	10.0		98.6		70-130	1.51		20		
Toluene	10.3	1.0	µg/L	10.0		103		70-130	1.54		20		
1,2,3-Trichlorobenzene	10.4	2.0	µg/L	10.0		104		70-130	2.74		20		
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	1.96		20		
1,1,1-Trichloroethane	9.57	1.0	µg/L	10.0		95.7		70-130	2.78		20		
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114		70-130	0.350		20		
Trichloroethylene	12.1	1.0	µg/L	10.0		121		70-130	15.4		20		
Trichlorofluoromethane (Freon 11)	9.67	2.0	µg/L	10.0		96.7		70-130	4.65		20		
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104		70-130	2.48		20		
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111		70-130	4.25		20		
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.0		113		70-130	4.57		20		
Vinyl Chloride	18.6	2.0	µg/L	10.0		**186**	*	70-130	12.5		20	L-02, V-20	
m+p Xylene	22.3	2.0	µg/L	20.0		112		70-130	4.30		20		
o-Xylene	11.6	1.0	µg/L	10.0		116		70-130	4.04		20		
Surrogate: 1,2-Dichloroethane-d4	*23.2*		µg/L	25.0		92.8		70-130					
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.6		70-130					
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104		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 B227443 - SW-846 3510C										
Blank (B227443-BLK1)				Prepared: 04/04/19 Analyzed: 04/05/19						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-34
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							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							R-05, V-34
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-05
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							

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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 B227443 - SW-846 3510C											
Blank (B227443-BLK1)				Prepared: 04/04/19 Analyzed: 04/05/19							
Phenol	ND	10	µg/L							R-05	
Pyrene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*101*		µg/L	200		50.5	15-110				
Surrogate: Phenol-d6	*70.6*		µg/L	200		35.3	15-110				
Surrogate: Nitrobenzene-d5	*75.8*		µg/L	100		75.8	30-130				
Surrogate: 2-Fluorobiphenyl	*77.1*		µg/L	100		77.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*164*		µg/L	200		82.1	15-110				
Surrogate: p-Terphenyl-d14	*92.3*		µg/L	100		92.3	30-130				
LCS (B227443-BS1)				Prepared: 04/04/19 Analyzed: 04/05/19							
Acenaphthene	39.6	5.0	µg/L	50.0		79.2	40-140				
Acenaphthylene	39.8	5.0	µg/L	50.0		79.5	40-140				
Acetophenone	39.2	10	µg/L	50.0		78.4	40-140				
Aniline	34.8	5.0	µg/L	50.0		69.7	40-140			V-34	
Anthracene	41.4	5.0	µg/L	50.0		82.7	40-140				
Benzo(a)anthracene	42.0	5.0	µg/L	50.0		84.0	40-140				
Benzo(a)pyrene	43.9	5.0	µg/L	50.0		87.9	40-140				
Benzo(b)fluoranthene	41.7	5.0	µg/L	50.0		83.3	40-140				
Benzo(g,h,i)perylene	45.6	5.0	µg/L	50.0		91.1	40-140				
Benzo(k)fluoranthene	42.6	5.0	µg/L	50.0		85.2	40-140				
Bis(2-chloroethoxy)methane	45.4	10	µg/L	50.0		90.8	40-140				
Bis(2-chloroethyl)ether	40.9	10	µg/L	50.0		81.9	40-140				
Bis(2-chloroisopropyl)ether	44.0	10	µg/L	50.0		87.9	40-140				
Bis(2-Ethylhexyl)phthalate	39.8	10	µg/L	50.0		79.6	40-140				
4-Bromophenylphenylether	39.4	10	µg/L	50.0		78.7	40-140				
Butylbenzylphthalate	43.7	10	µg/L	50.0		87.4	40-140				
4-Chloroaniline	38.7	10	µg/L	50.0		77.5	15-140			R-05, V-34	†
2-Chloronaphthalene	35.1	10	µg/L	50.0		70.2	40-140				
2-Chlorophenol	39.4	10	µg/L	50.0		78.8	30-130				
Chrysene	42.8	5.0	µg/L	50.0		85.5	40-140				
Dibenz(a,h)anthracene	43.1	5.0	µg/L	50.0		86.1	40-140				
Dibenzofuran	41.7	5.0	µg/L	50.0		83.3	40-140				
Di-n-butylphthalate	39.2	10	µg/L	50.0		78.4	40-140				
1,2-Dichlorobenzene	35.1	5.0	µg/L	50.0		70.3	40-140				
1,3-Dichlorobenzene	34.8	5.0	µg/L	50.0		69.6	40-140				
1,4-Dichlorobenzene	34.6	5.0	µg/L	50.0		69.2	40-140				
3,3-Dichlorobenzidine	48.4	10	µg/L	50.0		96.7	40-140				
2,4-Dichlorophenol	42.2	10	µg/L	50.0		84.4	30-130				
Diethylphthalate	42.2	10	µg/L	50.0		84.4	40-140				
2,4-Dimethylphenol	37.9	10	µg/L	50.0		75.8	30-130				
Dimethylphthalate	43.8	10	µg/L	50.0		87.6	40-140				
2,4-Dinitrophenol	33.3	10	µg/L	50.0		66.7	15-140			V-05	†
2,4-Dinitrotoluene	43.6	10	µg/L	50.0		87.3	40-140				
2,6-Dinitrotoluene	45.4	10	µg/L	50.0		90.7	40-140				
Di-n-octylphthalate	36.7	10	µg/L	50.0		73.4	40-140				
1,2-Diphenylhydrazine/Azobenzene	38.0	10	µg/L	50.0		76.0	40-140				
Fluoranthene	41.7	5.0	µg/L	50.0		83.3	40-140				
Fluorene	42.2	5.0	µg/L	50.0		84.3	40-140				
Hexachlorobenzene	39.1	10	µg/L	50.0		78.3	40-140				

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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 B227443 - SW-846 3510C												
LCS (B227443-BS1)				Prepared: 04/04/19 Analyzed: 04/05/19								
Hexachlorobutadiene	34.7	10	µg/L	50.0		69.4	40-140					
Hexachloroethane	35.1	10	µg/L	50.0		70.2	40-140					
Indeno(1,2,3-cd)pyrene	45.0	5.0	µg/L	50.0		89.9	40-140					
Isophorone	40.1	10	µg/L	50.0		80.2	40-140					
2-Methylnaphthalene	40.7	5.0	µg/L	50.0		81.4	40-140					
2-Methylphenol	37.7	10	µg/L	50.0		75.4	30-130					
3/4-Methylphenol	34.5	10	µg/L	50.0		69.0	30-130					
Naphthalene	37.8	5.0	µg/L	50.0		75.7	40-140					
Nitrobenzene	37.4	10	µg/L	50.0		74.7	40-140					
2-Nitrophenol	36.2	10	µg/L	50.0		72.3	30-130					
4-Nitrophenol	23.8	10	µg/L	50.0		47.5	15-140					†
Pentachlorophenol	38.9	10	µg/L	50.0		77.8	30-130					
Phenanthrene	41.0	5.0	µg/L	50.0		82.1	40-140					
Phenol	20.5	10	µg/L	50.0		41.0	15-140				R-05	†
Pyrene	43.8	5.0	µg/L	50.0		87.5	40-140					
1,2,4-Trichlorobenzene	36.6	5.0	µg/L	50.0		73.2	40-140					
2,4,5-Trichlorophenol	39.8	10	µg/L	50.0		79.6	30-130					
2,4,6-Trichlorophenol	41.1	10	µg/L	50.0		82.2	30-130					
Surrogate: 2-Fluorophenol	*113*		µg/L	200		56.5	15-110					
Surrogate: Phenol-d6	*85.0*		µg/L	200		42.5	15-110					
Surrogate: Nitrobenzene-d5	*82.6*		µg/L	100		82.6	30-130					
Surrogate: 2-Fluorobiphenyl	*84.7*		µg/L	100		84.7	30-130					
Surrogate: 2,4,6-Tribromophenol	*197*		µg/L	200		98.4	15-110					
Surrogate: p-Terphenyl-d14	*94.0*		µg/L	100		94.0	30-130					
LCS Dup (B227443-BSD1)				Prepared: 04/04/19 Analyzed: 04/05/19								
Acenaphthene	34.8	5.0	µg/L	50.0		69.7	40-140	12.8		20		
Acenaphthylene	34.6	5.0	µg/L	50.0		69.2	40-140	13.9		20		
Acetophenone	32.9	10	µg/L	50.0		65.8	40-140	17.5		20		
Aniline	26.2	5.0	µg/L	50.0		52.4	40-140	**28.3**	*	20	V-34	
Anthracene	36.3	5.0	µg/L	50.0		72.7	40-140	12.9		20		
Benzo(a)anthracene	37.3	5.0	µg/L	50.0		74.7	40-140	11.8		20		
Benzo(a)pyrene	38.3	5.0	µg/L	50.0		76.7	40-140	13.6		20		
Benzo(b)fluoranthene	36.1	5.0	µg/L	50.0		72.2	40-140	14.3		20		
Benzo(g,h,i)perylene	40.0	5.0	µg/L	50.0		79.9	40-140	13.1		20		
Benzo(k)fluoranthene	37.3	5.0	µg/L	50.0		74.5	40-140	13.3		20		
Bis(2-chloroethoxy)methane	39.4	10	µg/L	50.0		78.8	40-140	14.1		20		
Bis(2-chloroethyl)ether	34.4	10	µg/L	50.0		68.9	40-140	17.2		20		
Bis(2-chloroisopropyl)ether	37.4	10	µg/L	50.0		74.9	40-140	16.1		20		
Bis(2-Ethylhexyl)phthalate	35.9	10	µg/L	50.0		71.7	40-140	10.4		20		
4-Bromophenylphenylether	35.7	10	µg/L	50.0		71.4	40-140	9.75		20		
Butylbenzylphthalate	39.2	10	µg/L	50.0		78.3	40-140	11.0		20		
4-Chloroaniline	29.7	10	µg/L	50.0		59.5	15-140	**26.3**	*	20	R-05, V-34	†
2-Chloronaphthalene	32.1	10	µg/L	50.0		64.2	40-140	8.99		20		
2-Chlorophenol	33.0	10	µg/L	50.0		66.1	30-130	17.6		20		
Chrysene	38.6	5.0	µg/L	50.0		77.1	40-140	10.3		20		
Dibenz(a,h)anthracene	37.2	5.0	µg/L	50.0		74.5	40-140	14.5		20		
Dibenzofuran	35.8	5.0	µg/L	50.0		71.6	40-140	15.2		20		
Di-n-butylphthalate	35.8	10	µg/L	50.0		71.7	40-140	9.01		20		
1,2-Dichlorobenzene	29.7	5.0	µg/L	50.0		59.4	40-140	16.8		20		
1,3-Dichlorobenzene	29.1	5.0	µg/L	50.0		58.2	40-140	18.0		20		
1,4-Dichlorobenzene	29.0	5.0	µg/L	50.0		58.0	40-140	17.6		20		

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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 B227443 - SW-846 3510C												
LCS Dup (B227443-BSD1)				Prepared: 04/04/19 Analyzed: 04/05/19								
3,3-Dichlorobenzidine	42.4	10	µg/L	50.0		84.7	40-140	13.2		20		
2,4-Dichlorophenol	34.9	10	µg/L	50.0		69.8	30-130	18.9		20		
Diethylphthalate	36.8	10	µg/L	50.0		73.5	40-140	13.8		20		
2,4-Dimethylphenol	31.0	10	µg/L	50.0		62.0	30-130	20.0		20		
Dimethylphthalate	38.5	10	µg/L	50.0		77.0	40-140	12.9		20		
2,4-Dinitrophenol	28.9	10	µg/L	50.0		57.7	15-140	14.4		20	V-05	†
2,4-Dinitrotoluene	36.8	10	µg/L	50.0		73.6	40-140	17.0		20		
2,6-Dinitrotoluene	37.8	10	µg/L	50.0		75.6	40-140	18.1		20		
Di-n-octylphthalate	32.0	10	µg/L	50.0		64.0	40-140	13.7		20		
1,2-Diphenylhydrazine/Azobenzene	34.2	10	µg/L	50.0		68.4	40-140	10.6		20		
Fluoranthene	37.0	5.0	µg/L	50.0		74.0	40-140	11.9		20		
Fluorene	36.3	5.0	µg/L	50.0		72.6	40-140	14.9		20		
Hexachlorobenzene	34.4	10	µg/L	50.0		68.8	40-140	12.9		20		
Hexachlorobutadiene	29.8	10	µg/L	50.0		59.6	40-140	15.2		20		
Hexachloroethane	29.2	10	µg/L	50.0		58.4	40-140	18.4		20		
Indeno(1,2,3-cd)pyrene	38.2	5.0	µg/L	50.0		76.5	40-140	16.2		20		
Isophorone	35.0	10	µg/L	50.0		69.9	40-140	13.7		20		
2-Methylnaphthalene	34.7	5.0	µg/L	50.0		69.5	40-140	15.8		20		
2-Methylphenol	31.4	10	µg/L	50.0		62.8	30-130	18.3		20		
3/4-Methylphenol	28.6	10	µg/L	50.0		57.2	30-130	18.6		20		
Naphthalene	32.9	5.0	µg/L	50.0		65.8	40-140	14.1		20		
Nitrobenzene	31.8	10	µg/L	50.0		63.6	40-140	16.0		20		
2-Nitrophenol	31.0	10	µg/L	50.0		62.0	30-130	15.4		20		
4-Nitrophenol	19.4	10	µg/L	50.0		38.9	15-140	20.0		20		†
Pentachlorophenol	35.4	10	µg/L	50.0		70.8	30-130	9.40		20		
Phenanthrene	36.7	5.0	µg/L	50.0		73.4	40-140	11.2		20		
Phenol	16.4	10	µg/L	50.0		32.9	15-140	**21.9**	*	20	R-05	†
Pyrene	39.2	5.0	µg/L	50.0		78.4	40-140	11.0		20		
1,2,4-Trichlorobenzene	31.5	5.0	µg/L	50.0		63.0	40-140	15.0		20		
2,4,5-Trichlorophenol	34.2	10	µg/L	50.0		68.4	30-130	15.1		20		
2,4,6-Trichlorophenol	35.7	10	µg/L	50.0		71.4	30-130	14.0		20		
Surrogate: 2-Fluorophenol	*94.2*		µg/L	200		47.1	15-110					
Surrogate: Phenol-d6	*68.9*		µg/L	200		34.4	15-110					
Surrogate: Nitrobenzene-d5	*69.3*		µg/L	100		69.3	30-130					
Surrogate: 2-Fluorobiphenyl	*72.6*		µg/L	100		72.6	30-130					
Surrogate: 2,4,6-Tribromophenol	*166*		µg/L	200		83.1	15-110					
Surrogate: p-Terphenyl-d14	*83.6*		µg/L	100		83.6	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 B227544 - SW-846 3510C										
Blank (B227544-BLK1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	*1.48*		µg/L	2.00		73.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.48*		µg/L	2.00		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.16*		µg/L	2.00		58.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		µg/L	2.00		59.3	30-150			
LCS (B227544-BS1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Aroclor-1016	0.42	0.20	µg/L	0.500		85.0	40-140			
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		84.6	40-140			
Aroclor-1260	0.40	0.20	µg/L	0.500		79.4	40-140			
Aroclor-1260 [2C]	0.41	0.20	µg/L	0.500		82.3	40-140			
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.75*		µg/L	2.00		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		70.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.43*		µg/L	2.00		71.6	30-150			
LCS Dup (B227544-BSD1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Aroclor-1016	0.41	0.20	µg/L	0.500		81.2	40-140	4.53	20	
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		83.2	40-140	1.67	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		76.2	40-140	4.17	20	
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		79.5	40-140	3.52	20	
Surrogate: Decachlorobiphenyl	*1.67*		µg/L	2.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.44*		µg/L	2.00		71.9	30-150			

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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 B227554 - SW-846 3005A										
Blank (B227554-BLK1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Copper	ND	5.0	µg/L							
Lead	ND	1.0	µg/L							
Manganese	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B227554-BS1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Antimony	550	10	µg/L	500		110	80-120			
Arsenic	544	4.0	µg/L	500		109	80-120			
Barium	541	100	µg/L	500		108	80-120			
Beryllium	542	4.0	µg/L	500		108	80-120			
Cadmium	555	5.0	µg/L	500		111	80-120			
Chromium	563	10	µg/L	500		113	80-120			
Copper	1100	50	µg/L	1000		110	80-120			
Lead	556	10	µg/L	500		111	80-120			
Manganese	548	10	µg/L	500		110	80-120			
Nickel	563	50	µg/L	500		113	80-120			
Selenium	538	50	µg/L	500		108	80-120			
Silver	422	5.0	µg/L	500		84.5	80-120			
Thallium	517	2.0	µg/L	500		103	80-120			
Vanadium	526	50	µg/L	500		105	80-120			
Zinc	1090	100	µg/L	1000		109	80-120			
LCS Dup (B227554-BSD1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Antimony	506	10	µg/L	500		101	80-120	8.26	20	
Arsenic	504	4.0	µg/L	500		101	80-120	7.71	20	
Barium	496	100	µg/L	500		99.2	80-120	8.76	20	
Beryllium	505	4.0	µg/L	500		101	80-120	7.20	20	
Cadmium	509	5.0	µg/L	500		102	80-120	8.63	20	
Chromium	516	10	µg/L	500		103	80-120	8.67	20	
Copper	1010	50	µg/L	1000		101	80-120	8.85	20	
Lead	510	10	µg/L	500		102	80-120	8.62	20	
Manganese	501	10	µg/L	500		100	80-120	8.98	20	
Nickel	519	50	µg/L	500		104	80-120	8.03	20	
Selenium	502	50	µg/L	500		100	80-120	6.97	20	
Silver	419	5.0	µg/L	500		83.8	80-120	0.778	20	
Thallium	477	2.0	µg/L	500		95.4	80-120	8.12	20	
Vanadium	490	50	µg/L	500		98.1	80-120	7.02	20	
Zinc	1010	100	µg/L	1000		101	80-120	7.73	20	

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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 B227561 - SW-846 7470A Prep										
Blank (B227561-BLK1)				Prepared & Analyzed: 04/08/19						
Mercury	ND	0.00010	mg/L							
LCS (B227561-BS1)				Prepared & Analyzed: 04/08/19						
Mercury	0.00379	0.00010	mg/L	0.00400		94.7	80-120			
LCS Dup (B227561-BSD1)				Prepared & Analyzed: 04/08/19						
Mercury	0.00381	0.00010	mg/L	0.00400		95.2	80-120	0.563	20	
Duplicate (B227561-DUP1)		**Source: 19D0106-02**		Prepared & Analyzed: 04/08/19						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B227561-MS1)		**Source: 19D0106-02**		Prepared & Analyzed: 04/08/19						
Mercury	0.00375	0.00010	mg/L	0.00400	ND	93.7	75-125			

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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 B227576 - SW-846 3005A Dissolved										
Blank (B227576-BLK1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Arsenic	ND	0.40	µg/L							
Blank (B227576-BLK2)				Prepared: 04/05/19 Analyzed: 04/23/19						
Nickel	ND	5.0	µg/L							
LCS (B227576-BS1)				Prepared: 04/05/19 Analyzed: 04/08/19						
Arsenic	41.3	0.40	µg/L	40.0		103	80-120			
LCS (B227576-BS2)				Prepared: 04/05/19 Analyzed: 04/23/19						
Nickel	38.7	5.0	µg/L	40.0		96.8	80-120			

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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 B227200 - SM19-22 4500 NH3 C											
Blank (B227200-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Ammonia as N	ND	0.30	mg/L								
LCS (B227200-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Ammonia as N	4.8	0.30	mg/L	5.00		95.8	81.5-113				
LCS Dup (B227200-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Ammonia as N	4.8	0.30	mg/L	5.00		95.8	81.5-113	0.00		11.4	
Batch B227277 - EPA 300.0											
Blank (B227277-BLK1)				Prepared & Analyzed: 04/03/19							
Nitrate as N	ND	0.10	mg/L								
Nitrite as N	ND	0.100	mg/L								
LCS (B227277-BS1)				Prepared & Analyzed: 04/03/19							
Nitrate as N	0.96	0.10	mg/L	1.00		96.1	90-110				
Nitrite as N	1.05	0.100	mg/L	1.00		105	90-110				
LCS Dup (B227277-BSD1)				Prepared & Analyzed: 04/03/19							
Nitrate as N	0.92	0.10	mg/L	1.00		91.5	90-110	4.84		20	
Nitrite as N	1.06	0.100	mg/L	1.00		106	90-110	0.992		20	
Batch B227283 - SM 21-22 4500 P E											
Blank (B227283-BLK1)				Prepared & Analyzed: 04/02/19							
Orthophosphate as P	ND	0.050	mg/L								
LCS (B227283-BS1)				Prepared & Analyzed: 04/02/19							
Orthophosphate as P	0.13	0.050	mg/L	0.170		78.8	72-122				
LCS Dup (B227283-BSD1)				Prepared & Analyzed: 04/02/19							
Orthophosphate as P	0.19	0.050	mg/L	0.170		112	72-122	**34.7**	*	10.6	R-05
Duplicate (B227283-DUP1)	**Source: 19D0106-03**			Prepared & Analyzed: 04/02/19							
Orthophosphate as P	ND	0.050	mg/L		ND			NC		17	W-17
Duplicate (B227283-DUP2)	**Source: 19D0106-02**			Prepared & Analyzed: 04/02/19							
Orthophosphate as P	ND	0.050	mg/L		ND			NC		17	W-17
Matrix Spike (B227283-MS1)	**Source: 19D0106-03**			Prepared & Analyzed: 04/02/19							
Orthophosphate as P	0.30	0.050	mg/L	0.300	ND	100	55.9-148				W-17

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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 B227283 - SM 21-22 4500 P E										
Matrix Spike (B227283-MS2)	**Source: 19D0106-02**			Prepared & Analyzed: 04/02/19						
Orthophosphate as P	0.32	0.050	mg/L	0.300	ND	108	55.9-148			W-17
Batch B227312 - SM19-22 4500-N Org B,C-NH3 C										
Blank (B227312-BLK1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Total Kjeldahl Nitrogen	ND	1.0	mg/L							
LCS (B227312-BS1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Total Kjeldahl Nitrogen	19	1.0	mg/L	20.0		95.8	75-117			
Batch B227529 - SM19-22 4500 NH3 C										
Blank (B227529-BLK1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Ammonia as N	ND	0.30	mg/L							
LCS (B227529-BS1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Ammonia as N	4.8	0.30	mg/L	5.00		95.8	81.5-113			
LCS Dup (B227529-BSD1)				Prepared: 04/05/19 Analyzed: 04/06/19						
Ammonia as N	4.9	0.30	mg/L	5.00		98.2	81.5-113	2.47	11.4	
Batch B227568 - SM 21-22 4500 P E										
Blank (B227568-BLK1)				Prepared & Analyzed: 04/07/19						
Phosphorus, Total	ND	0.050	mg/L							
LCS (B227568-BS1)				Prepared & Analyzed: 04/07/19						
Phosphorus, Total	0.22	0.050	mg/L	0.205		107	86.5-124			
LCS Dup (B227568-BSD1)				Prepared & Analyzed: 04/07/19						
Phosphorus, Total	0.22	0.050	mg/L	0.205		109	86.5-124	2.41	11	
Duplicate (B227568-DUP2)	**Source: 19D0106-04**			Prepared & Analyzed: 04/07/19						
Phosphorus, Total	ND	0.062	mg/L		ND			NC	38.5	
Matrix Spike (B227568-MS2)	**Source: 19D0106-04**			Prepared & Analyzed: 04/07/19						
Phosphorus, Total	0.30	0.062	mg/L	0.300	ND	101	28.2-163			
Batch B227612 - EPA 300.0										
Blank (B227612-BLK1)				Prepared & Analyzed: 04/09/19						
Chloride	ND	1.0	mg/L							

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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 B227612 - EPA 300.0											
LCS (B227612-BS1)				Prepared & Analyzed: 04/09/19							
Chloride	5.4	1.0	mg/L	5.00		107		90-110			
LCS Dup (B227612-BSD1)				Prepared & Analyzed: 04/09/19							
Chloride	5.3	1.0	mg/L	5.00		106		90-110	0.906	20	
Duplicate (B227612-DUP1)	**Source: 19D0106-03**			Prepared & Analyzed: 04/09/19							
Chloride	26	1.0	mg/L		26				0.217	20	
Matrix Spike (B227612-MS1)	**Source: 19D0106-03**			Prepared & Analyzed: 04/09/19							
Chloride	29	1.0	mg/L	5.00	26	**58.6**	*	80-120			MS-07

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B227544-BS1 Date(s) Analyzed: 04/06/2019 04/06/2019

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.41	2.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B227544-BSD1 Date(s) Analyzed: 04/06/2019 04/06/2019

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.40	5.1

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
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.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
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-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration verification (CCV) 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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
W-17	Samples analyzed for Ortho phosphate were not filtered within 15 minutes of sampling.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Nitrite as N	NY,NC,NH,VA,ME,CT,RI
SM 21-22 4500 P E in Water	
Orthophosphate as P	CT,MA,NH,NY,RI,ME,VA
Phosphorus, Total	CT,MA,NH,NY,RI,NC,ME,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM19-22 4500-N Org B,C-NH3 C in Water	
Total Kjeldahl Nitrogen	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 6020B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
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
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
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
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Ethylbenzene	CT,NH,NY,ME
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
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
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
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
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY

JLH

Phone: 413-525-2332 19D0106
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Vertex
Address: 100 N Washington St Boston MA
Phone: 781-917-5360
Project Name: River Edge 46746 - Stoneham
Project Location: Wayland MA
Project Number: 46047
Project Manager: K Sorson
Con-Test Quote Name/Number:
Invoice Recipient: K. Sorson
Sampled By: K Sorson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-DAY ☒

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: ED
CLP Like Data Pkg Required: ☐
Email To: ksorson@vertexeng.com
Fax To #:

	Diss. Arsenic	Total MCP 14 Metals	8260	8270	PCB 8082	Ammo/Total N/Phos	Nitrate/ortho/chloride
# of Containers	1	1	3	2	2	1	1
Preservation Code	N	N	H	I	I	S	I
Container Code	P	P	V	A	A	P	P

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered (marked)
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered (marked)
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	Diss. Arsenic	Total MCP 14 Metals	8260	8270	PCB 8082	Ammo/Total N/Phos	Nitrate/ortho/chloride
1	V-103(MW)	4/2/19	0730		✓	GW		X	X	X	X	X	X	X
2	V-106(MW)	↓	0930		↓	↓		X	X	X	X	X	X	X
3	V-104(MW)	↓	1215		↓	↓		X	X	X	X	X	X	X
4	MW-3	↓	1435		↓	↓		X	X	X	X	X	X	X

Comments:

changes made per client. JLH 4/3/19
add Cu and Mg
Client requested Diss Ni on sample -02 JLH 4/22/19

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Signature	Date/Time
Relinquished by: (signature) [signature]	4/2/19 1525
Received by: (signature) Joseph M. [signature]	4/2/19 1525
Relinquished by: (signature) Joseph M. [signature]	4/2/19 1730
Received by: (signature) [signature] 2.8, 3.8	4/2/19 17:30
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT
Other

Special Requirements
☒ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Vortex

Received By _____ Date 4/2/19 Time 17:30

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 3.8, 3.8

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Irma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid HCl Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	8	1 Liter Plastic	4	16 oz Amb.	
HCL-	9	500 mL Amb.		500 mL Plastic	3	8oz Amb/Clear	
Meoh-		250 mL Amb.	6	250 mL Plastic	8	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass	2	Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	1	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.	8	250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 19D0106
Project Location: Wayland, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

19D0106-01 thru 19D0106-04

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D (X)	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX 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: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 04/09/19

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 5, 2019

Kristen Sarson
Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114

Project Location: Wayland, MA
Client Job Number:
Project Number: 46047
Laboratory Work Order Number: 19C1572

Enclosed are results of analyses for samples received by the laboratory on March 29, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/5/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19C1572

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-107 (5-10)	19C1572-01	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
V-108 (0-5)	19C1572-02	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
V-109 (5-10)	19C1572-03	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/5/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19C1572

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-110 (5-10)	19C1572-04	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
V-111 (0-10)	19C1572-05	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
V-112 (0-5)	19C1572-06	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/5/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19C1572

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-113 (0-5)	19C1572-07	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
V-114 (5-10)	19C1572-08	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
V-115 (5-10)	19C1572-09	Soil		SM 2540G	
				SW-846 8082A	
V-116 (0-5)	19C1572-10	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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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.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 6010D

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

19C1572-06[V-112 (0-5)], B227367-MS1

SW-846 8082A

Qualifications:

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V- 110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], 19C1572-09[V-115 (5-10)], 19C1572-10[V-116 (0-5)]

SW-846 8260C

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Vinyl Chloride

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V- 110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227113-BLK1, B227113-BS1, B227113-BSD1, B227135-BLK1, B227135-BS1, B227135-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V- 110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227113-BLK1, B227113-BS1, B227113-BSD1, B227135-BLK1, B227135-BS1, B227135-BSD1

V-20

Continuing calibration verification (CCV) 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:

Bromoform

B227113-BS1, B227113-BSD1, B227135-BS1, B227135-BSD1, S034201-CCV1, S034203-CCV1

Methyl tert-Butyl Ether (MTBE)

B227113-BS1, B227113-BSD1, B227135-BS1, B227135-BSD1, S034201-CCV1, S034203-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V- 110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227113-BLK1, B227113-BS1, B227113-BSD1, B227135-BLK1, B227135-BS1, B227135-BSD1, S034201-CCV1, S034203-CCV1

SW-846 8270D

Qualifications:

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.

Analyte & Samples(s) Qualified:

Aniline

B227222-BS1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2-Methylphenol

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V-110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227222-BLK1, B227222-BS1, B227222-BSD1, B227222-MS1, B227222-MSD1, S034267-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V-110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227222-BLK1, B227222-BS1, B227222-BSD1, B227222-MS1, B227222-MSD1, S034267-CCV1

4-Chloroaniline

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V-110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227222-BLK1, B227222-BS1, B227222-BSD1, B227222-MS1, B227222-MSD1, S034267-CCV1

Aniline

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V-110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227222-BLK1, B227222-BS1, B227222-BSD1, B227222-MS1, B227222-MSD1, S034267-CCV1

SW-846 9045C

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

19C1572-01[V-107 (5-10)], 19C1572-02[V-108 (0-5)], 19C1572-03[V-109 (5-10)], 19C1572-04[V-110 (5-10)], 19C1572-05[V-111 (0-10)], 19C1572-06[V-112 (0-5)], 19C1572-07[V-113 (0-5)], 19C1572-08[V-114 (5-10)], B227052-DUP1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

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 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.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 15:19	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Chlorodibromomethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Chloroethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2-Dibromoethane (EDB)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Diethyl Ether	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Diisopropyl Ether (DIPE)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,4-Dioxane	ND	0.076	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Methylene Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 15:19	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		4/1/19 15:19
Toluene-d8	97.4	70-130		4/1/19 15:19
4-Bromofluorobenzene	97.7	70-130		4/1/19 15:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Acetophenone	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Aniline	ND	0.34	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
4-Chloroaniline	ND	0.66	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
1,2-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
1,3-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
1,4-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,4-Dinitrophenol	ND	0.66	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.34	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 15:47	IMR
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
4-Nitrophenol	ND	0.66	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 15:47	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	70.5	30-130		4/3/19 15:47
Phenol-d6	82.6	30-130		4/3/19 15:47
Nitrobenzene-d5	81.6	30-130		4/3/19 15:47
2-Fluorobiphenyl	90.5	30-130		4/3/19 15:47
2,4,6-Tribromophenol	94.2	30-130		4/3/19 15:47
p-Terphenyl-d14	115	30-130		4/3/19 15:47

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 16:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.9	30-150		4/4/19 16:55
Decachlorobiphenyl [2]	93.9	30-150		4/4/19 16:55
Tetrachloro-m-xylene [1]	97.4	30-150		4/4/19 16:55
Tetrachloro-m-xylene [2]	95.2	30-150		4/4/19 16:55

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.4	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 4:52	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	69.1	40-140						4/4/19 4:52

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Arsenic	11	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:00	EJB
Barium	27	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Beryllium	0.27	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Cadmium	0.34	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Chromium	12	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Lead	6.1	0.51	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 12:58	TBC
Nickel	9.3	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Silver	0.42	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 22:31	EJB
Vanadium	17	0.68	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH
Zinc	26	0.68	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:34	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-107 (5-10) | Sampled: 3/27/2019 13:05

Sample ID: 19C1572-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.0		% Wt	1		SM 2540G	4/3/19	4/4/19 0:58	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @22.2°C	8.1		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	19	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	4.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	3/31/19	3/31/19 11:45	KMV

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Bromomethane	ND	0.0088	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 15:43	MFF
2-Butanone (MEK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Chlorodibromomethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Chloroethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Chloroform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Chloromethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,3-Dichloropropane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
cis-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
trans-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Diethyl Ether	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Diisopropyl Ether (DIPE)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,4-Dioxane	ND	0.088	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Methylene Chloride	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Naphthalene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Tetrahydrofuran	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
Vinyl Chloride	ND	0.0088	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 15:43	MFF
m+p Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 15:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	96.9	70-130			4/1/19 15:43
Toluene-d8	97.4	70-130			4/1/19 15:43
4-Bromofluorobenzene	96.6	70-130			4/1/19 15:43

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Aniline	ND	0.36	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 16:09	IMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:09	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	73.4	30-130		4/3/19 16:09
Phenol-d6	82.5	30-130		4/3/19 16:09
Nitrobenzene-d5	83.1	30-130		4/3/19 16:09
2-Fluorobiphenyl	88.6	30-130		4/3/19 16:09
2,4,6-Tribromophenol	97.3	30-130		4/3/19 16:09
p-Terphenyl-d14	111	30-130		4/3/19 16:09

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.1	30-150		4/4/19 17:08
Decachlorobiphenyl [2]	95.7	30-150		4/4/19 17:08
Tetrachloro-m-xylene [1]	98.6	30-150		4/4/19 17:08
Tetrachloro-m-xylene [2]	96.8	30-150		4/4/19 17:08

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.8	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 10:44	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	75.9	40-140						4/4/19 10:44

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Arsenic	5.6	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:05	EJB
Barium	30	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Beryllium	0.28	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Cadmium	0.19	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Chromium	12	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Lead	5.2	0.52	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 12:59	TBC
Nickel	9.4	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Silver	0.41	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 22:37	EJB
Vanadium	17	0.69	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH
Zinc	25	0.69	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:41	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-108 (0-5) | Sampled: 3/27/2019 13:15

Sample ID: 19C1572-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @21.9°C	8.2		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	5.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	3/31/19	3/31/19 11:45	KMV

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Benzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Bromobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Bromochloromethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Bromodichloromethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Bromoform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Bromomethane	ND	0.015	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 16:08	MFF
2-Butanone (MEK)	ND	0.059	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
n-Butylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
sec-Butylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
tert-Butylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Carbon Disulfide	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Carbon Tetrachloride	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Chlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Chlorodibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Chloroform	ND	0.0059	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Chloromethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
2-Chlorotoluene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
4-Chlorotoluene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Dibromomethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2-Dichlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,3-Dichlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,4-Dichlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1-Dichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2-Dichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1-Dichloroethylene	ND	0.0059	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
cis-1,2-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
trans-1,2-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2-Dichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,3-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
2,2-Dichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1-Dichloropropene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
cis-1,3-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
trans-1,3-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Diethyl Ether	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Diisopropyl Ether (DIPE)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,4-Dioxane	ND	0.15	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Ethylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
2-Hexanone (MBK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Isopropylbenzene (Cumene)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0059	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Naphthalene	ND	0.0059	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
n-Propylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Styrene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Tetrachloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Tetrahydrofuran	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Toluene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2,3-Trichlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2,4-Trichlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1,1-Trichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,1,2-Trichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Trichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2,3-Trichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,2,4-Trimethylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
1,3,5-Trimethylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
Vinyl Chloride	ND	0.015	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 16:08	MFF
m+p Xylene	ND	0.0059	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF
o-Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.9	70-130		4/1/19 16:08
Toluene-d8	96.4	70-130		4/1/19 16:08
4-Bromofluorobenzene	96.0	70-130		4/1/19 16:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Aniline	ND	0.36	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 16:31	IMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:31	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	76.2	30-130		4/3/19 16:31
Phenol-d6	83.9	30-130		4/3/19 16:31
Nitrobenzene-d5	86.0	30-130		4/3/19 16:31
2-Fluorobiphenyl	89.7	30-130		4/3/19 16:31
2,4,6-Tribromophenol	96.2	30-130		4/3/19 16:31
p-Terphenyl-d14	113	30-130		4/3/19 16:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		4/4/19 17:20
Decachlorobiphenyl [2]	98.1	30-150		4/4/19 17:20
Tetrachloro-m-xylene [1]	92.0	30-150		4/4/19 17:20
Tetrachloro-m-xylene [2]	90.1	30-150		4/4/19 17:20

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.7	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 8:34	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	73.6	40-140						4/4/19 8:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Arsenic	6.5	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:10	EJB
Barium	33	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Beryllium	0.28	0.18	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Cadmium	0.21	0.18	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Chromium	12	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Lead	5.0	0.53	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 13:01	TBC
Nickel	9.6	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Silver	0.37	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 22:43	EJB
Vanadium	17	0.71	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH
Zinc	23	0.71	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:47	MJH

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Date Received: 3/29/2019

Field Sample #: V-109 (5-10) | Sampled: 3/27/2019 13:25

Sample ID: 19C1572-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @22.1°C	8.1		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	5.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	3/31/19	3/31/19 11:45	KMV

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 16:32	MFF
2-Butanone (MEK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Chloroethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Chloroform	ND	0.0046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Diethyl Ether	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Methylene Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Naphthalene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Toluene	0.0045	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 16:32	MFF
m+p Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 16:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.8	70-130		4/1/19 16:32
Toluene-d8	96.5	70-130		4/1/19 16:32
4-Bromofluorobenzene	96.0	70-130		4/1/19 16:32

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Aniline	ND	0.35	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 16:54	IMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 16:54	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	75.5	30-130		4/3/19 16:54
Phenol-d6	86.9	30-130		4/3/19 16:54
Nitrobenzene-d5	87.7	30-130		4/3/19 16:54
2-Fluorobiphenyl	93.9	30-130		4/3/19 16:54
2,4,6-Tribromophenol	99.4	30-130		4/3/19 16:54
p-Terphenyl-d14	114	30-130		4/3/19 16:54

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.1	30-150		4/4/19 17:33
Decachlorobiphenyl [2]	95.7	30-150		4/4/19 17:33
Tetrachloro-m-xylene [1]	94.5	30-150		4/4/19 17:33
Tetrachloro-m-xylene [2]	92.4	30-150		4/4/19 17:33

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	8.6	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 8:55	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	74.3	40-140					4/4/19 8:55

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Arsenic	6.4	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:15	EJB
Barium	26	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Beryllium	0.26	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Cadmium	0.23	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Chromium	33	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Lead	3.9	0.52	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 13:03	TBC
Nickel	11	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 22:50	EJB
Vanadium	17	0.69	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH
Zinc	24	0.69	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 16:53	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-110 (5-10) | Sampled: 3/27/2019 13:35

Sample ID: 19C1572-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @22.2°C	8.5		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	5.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	3/31/19	3/31/19 11:45	KMV

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Bromomethane	ND	0.0094	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 20:16	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Chlorodibromomethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Chloroethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Chloromethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2-Dibromoethane (EDB)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,3-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
cis-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
trans-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Diethyl Ether	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Diisopropyl Ether (DIPE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,4-Dioxane	ND	0.094	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Methylene Chloride	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Tetrahydrofuran	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Toluene	0.0041	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
Vinyl Chloride	ND	0.0094	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 20:16	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.7	70-130		4/1/19 20:16
Toluene-d8	97.2	70-130		4/1/19 20:16
4-Bromofluorobenzene	95.0	70-130		4/1/19 20:16

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Aniline	ND	0.35	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 17:16	IMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:16	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	80.7	30-130		4/3/19 17:16
Phenol-d6	87.7	30-130		4/3/19 17:16
Nitrobenzene-d5	90.6	30-130		4/3/19 17:16
2-Fluorobiphenyl	90.5	30-130		4/3/19 17:16
2,4,6-Tribromophenol	98.3	30-130		4/3/19 17:16
p-Terphenyl-d14	109	30-130		4/3/19 17:16

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1221 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1232 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1242 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1248 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1254 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1260 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1262 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB
Aroclor-1268 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		4/4/19 17:46
Decachlorobiphenyl [2]	92.2	30-150		4/4/19 17:46
Tetrachloro-m-xylene [1]	101	30-150		4/4/19 17:46
Tetrachloro-m-xylene [2]	97.5	30-150		4/4/19 17:46

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	13	8.6	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 10:16	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	81.4	40-140					4/4/19 10:16

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Arsenic	11	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:20	EJB
Barium	32	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Beryllium	0.31	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Cadmium	0.37	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Chromium	11	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Lead	5.6	0.52	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 13:04	TBC
Nickel	11	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Silver	0.44	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 22:56	EJB
Vanadium	17	0.69	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH
Zinc	25	0.69	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:00	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-111 (0-10) | Sampled: 3/27/2019 13:45

Sample ID: 19C1572-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @22°C	8.2		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	6.5	2.0	µmhos/cm	1		SM21-22 2510B Modified	3/31/19	3/31/19 11:45	KMV

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Bromomethane	ND	0.0093	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 20:40	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Chlorodibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Chloroethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Chloromethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,3-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
cis-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
trans-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Diethyl Ether	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Diisopropyl Ether (DIPE)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,4-Dioxane	ND	0.093	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Methylene Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Tetrahydrofuran	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Toluene	0.0030	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
Vinyl Chloride	ND	0.0093	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 20:40	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 20:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.7	70-130		4/1/19 20:40
Toluene-d8	96.8	70-130		4/1/19 20:40
4-Bromofluorobenzene	95.6	70-130		4/1/19 20:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Aniline	ND	0.35	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 17:38	IMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 17:38	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	65.6	30-130		4/3/19 17:38
Phenol-d6	73.2	30-130		4/3/19 17:38
Nitrobenzene-d5	72.2	30-130		4/3/19 17:38
2-Fluorobiphenyl	78.4	30-130		4/3/19 17:38
2,4,6-Tribromophenol	92.8	30-130		4/3/19 17:38
p-Terphenyl-d14	99.9	30-130		4/3/19 17:38

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1221 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1232 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1242 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1248 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1254 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1260 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1262 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB
Aroclor-1268 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 17:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.6	30-150		4/4/19 17:59
Decachlorobiphenyl [2]	91.5	30-150		4/4/19 17:59
Tetrachloro-m-xylene [1]	99.7	30-150		4/4/19 17:59
Tetrachloro-m-xylene [2]	96.5	30-150		4/4/19 17:59

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.6	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 9:15	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	73.1	40-140						4/4/19 9:15

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1	MS-07	SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Arsenic	5.0	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 12:19	EJB
Barium	21	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Beryllium	0.25	0.18	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Chromium	9.1	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Lead	3.9	0.53	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 13:06	TBC
Nickel	7.1	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 21:40	EJB
Vanadium	12	0.71	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH
Zinc	17	0.71	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 15:47	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-112 (0-5) | Sampled: 3/27/2019 14:00

Sample ID: 19C1572-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @20.7°C	6.3		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	4.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	4/1/19	4/1/19 11:30	EC

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Bromomethane	ND	0.0089	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 21:04	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Chlorodibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Chloroethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Chloromethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,3-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
cis-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
trans-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Diethyl Ether	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Diisopropyl Ether (DIPE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,4-Dioxane	ND	0.089	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Methylene Chloride	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Tetrahydrofuran	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
Vinyl Chloride	ND	0.0089	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 21:04	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		4/1/19 21:04
Toluene-d8	95.8	70-130		4/1/19 21:04
4-Bromofluorobenzene	94.6	70-130		4/1/19 21:04

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Aniline	ND	0.36	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 18:00	IMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:00	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	78.8	30-130		4/3/19 18:00
Phenol-d6	87.4	30-130		4/3/19 18:00
Nitrobenzene-d5	87.4	30-130		4/3/19 18:00
2-Fluorobiphenyl	87.6	30-130		4/3/19 18:00
2,4,6-Tribromophenol	102	30-130		4/3/19 18:00
p-Terphenyl-d14	110	30-130		4/3/19 18:00

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1221 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1232 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1242 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1248 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1254 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1260 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1262 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB
Aroclor-1268 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		4/4/19 18:12
Decachlorobiphenyl [2]	101	30-150		4/4/19 18:12
Tetrachloro-m-xylene [1]	105	30-150		4/4/19 18:12
Tetrachloro-m-xylene [2]	101	30-150		4/4/19 18:12

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.9	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 9:35	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	75.0	40-140						4/4/19 9:35

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Arsenic	2.8	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:25	EJB
Barium	15	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Chromium	11	0.36	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Lead	2.3	0.54	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 13:07	TBC
Nickel	4.8	0.36	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 23:03	EJB
Vanadium	9.6	0.72	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH
Zinc	11	0.72	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:07	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-113 (0-5) | Sampled: 3/28/2019 11:00

Sample ID: 19C1572-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @20.4°C	6.5		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	ND	2.0	µmhos/cm	1		SM21-22 2510B Modified	4/1/19	4/1/19 11:30	EC

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	V-34	SW-846 8260C	4/1/19	4/1/19 21:29	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Toluene	0.0068	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1	L-04	SW-846 8260C	4/1/19	4/1/19 21:29	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	4/1/19	4/1/19 21:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.1	70-130		4/1/19 21:29
Toluene-d8	96.3	70-130		4/1/19 21:29
4-Bromofluorobenzene	97.4	70-130		4/1/19 21:29

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Aniline	ND	0.36	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D	4/2/19	4/3/19 18:23	IMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	4/2/19	4/3/19 18:23	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	85.4	30-130		4/3/19 18:23
Phenol-d6	92.8	30-130		4/3/19 18:23
Nitrobenzene-d5	94.9	30-130		4/3/19 18:23
2-Fluorobiphenyl	97.5	30-130		4/3/19 18:23
2,4,6-Tribromophenol	105	30-130		4/3/19 18:23
p-Terphenyl-d14	113	30-130		4/3/19 18:23

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		4/4/19 18:25
Decachlorobiphenyl [2]	100	30-150		4/4/19 18:25
Tetrachloro-m-xylene [1]	104	30-150		4/4/19 18:25
Tetrachloro-m-xylene [2]	102	30-150		4/4/19 18:25

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	27	8.7	mg/Kg dry	1		SW-846 8100 Modified	4/2/19	4/4/19 9:55	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	76.7	40-140						4/4/19 9:55

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Arsenic	4.5	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/5/19 13:30	EJB
Barium	31	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Beryllium	0.26	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Chromium	15	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Lead	5.8	0.51	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	4/2/19	4/3/19 13:09	TBC
Nickel	12	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Silver	0.57	0.34	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 23:09	EJB
Vanadium	23	0.68	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH
Zinc	30	0.68	mg/Kg dry	1		SW-846 6010D	4/3/19	4/4/19 17:13	MJH

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-114 (5-10) | Sampled: 3/28/2019 11:35

Sample ID: 19C1572-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.4		% Wt	1		SM 2540G	4/3/19	4/4/19 0:59	AVF
Ignitability	Absent		present/absent	1		SW-846 1030	4/2/19	4/2/19 19:15	DJM
pH @20.3°C	6.4		pH Units	1	H-03	SW-846 9045C	3/30/19	3/30/19 15:04	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	3/30/19	3/31/19 10:20	KMV
Reactive Sulfide	ND	20	mg/L	1		SW-846 9030A	3/30/19	3/31/19 9:50	KMV
Specific conductance	2.1	2.0	µmhos/cm	1		SM21-22 2510B Modified	4/1/19	4/1/19 11:30	EC

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-115 (5-10) | Sampled: 3/28/2019 12:00

Sample ID: 19C1572-09

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		4/4/19 18:37
Decachlorobiphenyl [2]	97.0	30-150		4/4/19 18:37
Tetrachloro-m-xylene [1]	97.7	30-150		4/4/19 18:37
Tetrachloro-m-xylene [2]	95.1	30-150		4/4/19 18:37

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-115 (5-10) | Sampled: 3/28/2019 12:00

Sample ID: 19C1572-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	4/3/19	4/4/19 1:00	AVF

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-116 (0-5) | Sampled: 3/28/2019 12:30

Sample ID: 19C1572-10

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	4/2/19	4/4/19 18:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		4/4/19 18:50
Decachlorobiphenyl [2]	97.4	30-150		4/4/19 18:50
Tetrachloro-m-xylene [1]	106	30-150		4/4/19 18:50
Tetrachloro-m-xylene [2]	103	30-150		4/4/19 18:50

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Project Location: Wayland, MA | Sample Description: | Work Order: 19C1572

Date Received: 3/29/2019

Field Sample #: V-116 (0-5) | Sampled: 3/28/2019 12:30

Sample ID: 19C1572-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	4/3/19	4/4/19 1:00	AVF

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
19C1572-01 [V-107 (5-10)]	B227324	04/03/19
19C1572-02 [V-108 (0-5)]	B227324	04/03/19
19C1572-03 [V-109 (5-10)]	B227324	04/03/19
19C1572-04 [V-110 (5-10)]	B227324	04/03/19
19C1572-05 [V-111 (0-10)]	B227324	04/03/19
19C1572-06 [V-112 (0-5)]	B227324	04/03/19
19C1572-07 [V-113 (0-5)]	B227324	04/03/19
19C1572-08 [V-114 (5-10)]	B227324	04/03/19
19C1572-09 [V-115 (5-10)]	B227324	04/03/19
19C1572-10 [V-116 (0-5)]	B227324	04/03/19

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
19C1572-01 [V-107 (5-10)]	B227054	1.00	03/31/19
19C1572-02 [V-108 (0-5)]	B227054	1.00	03/31/19
19C1572-03 [V-109 (5-10)]	B227054	1.00	03/31/19
19C1572-04 [V-110 (5-10)]	B227054	1.00	03/31/19
19C1572-05 [V-111 (0-10)]	B227054	1.00	03/31/19

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
19C1572-06 [V-112 (0-5)]	B227087	1.00	04/01/19
19C1572-07 [V-113 (0-5)]	B227087	1.00	04/01/19
19C1572-08 [V-114 (5-10)]	B227087	1.00	04/01/19

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
19C1572-01 [V-107 (5-10)]	B227278	50.0	04/02/19
19C1572-02 [V-108 (0-5)]	B227278	50.0	04/02/19
19C1572-03 [V-109 (5-10)]	B227278	50.0	04/02/19
19C1572-04 [V-110 (5-10)]	B227278	50.0	04/02/19
19C1572-05 [V-111 (0-10)]	B227278	50.0	04/02/19
19C1572-06 [V-112 (0-5)]	B227278	50.0	04/02/19
19C1572-07 [V-113 (0-5)]	B227278	50.0	04/02/19
19C1572-08 [V-114 (5-10)]	B227278	50.0	04/02/19

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227367	1.52	50.0	04/03/19
19C1572-02 [V-108 (0-5)]	B227367	1.54	50.0	04/03/19
19C1572-03 [V-109 (5-10)]	B227367	1.50	50.0	04/03/19
19C1572-04 [V-110 (5-10)]	B227367	1.52	50.0	04/03/19
19C1572-05 [V-111 (0-10)]	B227367	1.53	50.0	04/03/19
19C1572-06 [V-112 (0-5)]	B227367	1.50	50.0	04/03/19
19C1572-07 [V-113 (0-5)]	B227367	1.49	50.0	04/03/19
19C1572-08 [V-114 (5-10)]	B227367	1.53	50.0	04/03/19

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Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227094	0.619	50.0	04/02/19
19C1572-02 [V-108 (0-5)]	B227094	0.606	50.0	04/02/19
19C1572-03 [V-109 (5-10)]	B227094	0.608	50.0	04/02/19
19C1572-04 [V-110 (5-10)]	B227094	0.574	50.0	04/02/19
19C1572-05 [V-111 (0-10)]	B227094	0.598	50.0	04/02/19
19C1572-06 [V-112 (0-5)]	B227094	0.594	50.0	04/02/19
19C1572-07 [V-113 (0-5)]	B227094	0.612	50.0	04/02/19
19C1572-08 [V-114 (5-10)]	B227094	0.596	50.0	04/02/19

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227240	10.2	10.0	04/02/19
19C1572-02 [V-108 (0-5)]	B227240	10.2	10.0	04/02/19
19C1572-03 [V-109 (5-10)]	B227240	10.3	10.0	04/02/19
19C1572-04 [V-110 (5-10)]	B227240	10.2	10.0	04/02/19
19C1572-05 [V-111 (0-10)]	B227240	10.6	10.0	04/02/19
19C1572-06 [V-112 (0-5)]	B227240	10.7	10.0	04/02/19
19C1572-07 [V-113 (0-5)]	B227240	10.7	10.0	04/02/19
19C1572-08 [V-114 (5-10)]	B227240	10.4	10.0	04/02/19
19C1572-09 [V-115 (5-10)]	B227240	10.3	10.0	04/02/19
19C1572-10 [V-116 (0-5)]	B227240	10.3	10.0	04/02/19

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227221	30.7	1.00	04/02/19
19C1572-02 [V-108 (0-5)]	B227221	30.4	1.00	04/02/19
19C1572-03 [V-109 (5-10)]	B227221	30.5	1.00	04/02/19
19C1572-04 [V-110 (5-10)]	B227221	30.7	1.00	04/02/19
19C1572-05 [V-111 (0-10)]	B227221	30.4	1.00	04/02/19
19C1572-06 [V-112 (0-5)]	B227221	30.6	1.00	04/02/19
19C1572-07 [V-113 (0-5)]	B227221	30.0	1.00	04/02/19
19C1572-08 [V-114 (5-10)]	B227221	30.0	1.00	04/02/19

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227113	6.78	10.0	04/01/19
19C1572-02 [V-108 (0-5)]	B227113	6.06	10.0	04/01/19
19C1572-03 [V-109 (5-10)]	B227113	3.60	10.0	04/01/19
19C1572-04 [V-110 (5-10)]	B227113	4.62	10.0	04/01/19

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-05 [V-111 (0-10)]	B227135	5.57	10.0	04/01/19
19C1572-06 [V-112 (0-5)]	B227135	5.67	10.0	04/01/19
19C1572-07 [V-113 (0-5)]	B227135	6.01	10.0	04/01/19

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-08 [V-114 (5-10)]	B227135	5.04	10.0	04/01/19

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227222	30.7	1.00	04/02/19
19C1572-02 [V-108 (0-5)]	B227222	30.4	1.00	04/02/19
19C1572-03 [V-109 (5-10)]	B227222	30.5	1.00	04/02/19
19C1572-04 [V-110 (5-10)]	B227222	30.7	1.00	04/02/19
19C1572-05 [V-111 (0-10)]	B227222	30.4	1.00	04/02/19
19C1572-06 [V-112 (0-5)]	B227222	30.6	1.00	04/02/19
19C1572-07 [V-113 (0-5)]	B227222	30.0	1.00	04/02/19
19C1572-08 [V-114 (5-10)]	B227222	30.0	1.00	04/02/19

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227022	25.7	250	03/30/19
19C1572-02 [V-108 (0-5)]	B227022	25.4	250	03/30/19
19C1572-03 [V-109 (5-10)]	B227022	25.2	250	03/30/19
19C1572-04 [V-110 (5-10)]	B227022	25.2	250	03/30/19
19C1572-05 [V-111 (0-10)]	B227022	25.4	250	03/30/19
19C1572-06 [V-112 (0-5)]	B227022	25.5	250	03/30/19
19C1572-07 [V-113 (0-5)]	B227022	25.4	250	03/30/19
19C1572-08 [V-114 (5-10)]	B227022	25.2	250	03/30/19

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C1572-01 [V-107 (5-10)]	B227024	25.7	250	03/30/19
19C1572-02 [V-108 (0-5)]	B227024	25.4	250	03/30/19
19C1572-03 [V-109 (5-10)]	B227024	25.2	250	03/30/19
19C1572-04 [V-110 (5-10)]	B227024	25.2	250	03/30/19
19C1572-05 [V-111 (0-10)]	B227024	25.4	250	03/30/19
19C1572-06 [V-112 (0-5)]	B227024	25.5	250	03/30/19
19C1572-07 [V-113 (0-5)]	B227024	25.4	250	03/30/19
19C1572-08 [V-114 (5-10)]	B227024	25.2	250	03/30/19

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
19C1572-01 [V-107 (5-10)]	B227052	20.0	03/30/19
19C1572-02 [V-108 (0-5)]	B227052	20.0	03/30/19
19C1572-03 [V-109 (5-10)]	B227052	20.0	03/30/19
19C1572-04 [V-110 (5-10)]	B227052	20.0	03/30/19
19C1572-05 [V-111 (0-10)]	B227052	20.0	03/30/19
19C1572-06 [V-112 (0-5)]	B227052	20.0	03/30/19
19C1572-07 [V-113 (0-5)]	B227052	20.0	03/30/19
19C1572-08 [V-114 (5-10)]	B227052	20.0	03/30/19

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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 B227113 - SW-846 5035										
Blank (B227113-BLK1)				Prepared & Analyzed: 04/01/19						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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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 B227113 - SW-846 5035											
Blank (B227113-BLK1)				Prepared & Analyzed: 04/01/19							
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Tetrahydrofuran	ND	0.010	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet							L-04	
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0475*		mg/Kg wet	0.0500		95.0	70-130				
Surrogate: Toluene-d8	*0.0483*		mg/Kg wet	0.0500		96.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0480*		mg/Kg wet	0.0500		95.9	70-130				
LCS (B227113-BS1)				Prepared & Analyzed: 04/01/19							
Acetone	0.268	0.10	mg/Kg wet	0.200		134	40-160			L-14	†
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130				
Benzene	0.0165	0.0020	mg/Kg wet	0.0200		82.4	70-130				
Bromobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130				
Bromochloromethane	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130				
Bromodichloromethane	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130				
Bromoform	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			V-20	
Bromomethane	0.0114	0.010	mg/Kg wet	0.0200		56.8	40-160			L-14, V-34	†
2-Butanone (MEK)	0.222	0.040	mg/Kg wet	0.200		111	40-160				†
n-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130				
sec-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
tert-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.0200		93.8	70-130				
Carbon Disulfide	0.0178	0.0060	mg/Kg wet	0.0200		89.2	70-130				
Carbon Tetrachloride	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130				
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130				
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130				
Chloroethane	0.0182	0.010	mg/Kg wet	0.0200		91.2	70-130				
Chloroform	0.0169	0.0040	mg/Kg wet	0.0200		84.7	70-130				
Chloromethane	0.0115	0.010	mg/Kg wet	0.0200		57.3	40-160			L-14	†
2-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130				
4-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130				
1,2-Dibromoethane (EDB)	0.0188	0.0010	mg/Kg wet	0.0200		94.2	70-130				
Dibromomethane	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130				
1,2-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130				
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130				
1,4-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	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 B227113 - SW-846 5035												
LCS (B227113-BS1)				Prepared & Analyzed: 04/01/19								
Dichlorodifluoromethane (Freon 12)	0.0104	0.010	mg/Kg wet	0.0200		52.2		40-160			L-14	†
1,1-Dichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.3		70-130				
1,2-Dichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130				
1,1-Dichloroethylene	0.0172	0.0040	mg/Kg wet	0.0200		86.2		70-130				
cis-1,2-Dichloroethylene	0.0173	0.0020	mg/Kg wet	0.0200		86.3		70-130				
trans-1,2-Dichloroethylene	0.0173	0.0020	mg/Kg wet	0.0200		86.4		70-130				
1,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.1		70-130				
1,3-Dichloropropane	0.0176	0.0010	mg/Kg wet	0.0200		88.3		70-130				
2,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.1		70-130				
1,1-Dichloropropene	0.0171	0.0020	mg/Kg wet	0.0200		85.6		70-130				
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		94.9		70-130				
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.4		70-130				
Diethyl Ether	0.0174	0.010	mg/Kg wet	0.0200		87.2		70-130				
Diisopropyl Ether (DIPE)	0.0178	0.0010	mg/Kg wet	0.0200		89.1		70-130				
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.1		40-160			V-16	†
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130				
Hexachlorobutadiene	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130				
2-Hexanone (MBK)	0.207	0.020	mg/Kg wet	0.200		104		40-160				†
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
p-Isopropyltoluene (p-Cymene)	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0241	0.0040	mg/Kg wet	0.0200		121		70-130			V-20	
Methylene Chloride	0.0187	0.010	mg/Kg wet	0.0200		93.6		70-130				
4-Methyl-2-pentanone (MIBK)	0.194	0.020	mg/Kg wet	0.200		97.1		40-160				†
Naphthalene	0.0205	0.0040	mg/Kg wet	0.0200		103		70-130				
n-Propylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130				
1,1,1,2-Tetrachloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
1,1,2,2-Tetrachloroethane	0.0209	0.0010	mg/Kg wet	0.0200		105		70-130				
Tetrachloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
Tetrahydrofuran	0.0192	0.010	mg/Kg wet	0.0200		95.9		70-130				
Toluene	0.0179	0.0020	mg/Kg wet	0.0200		89.6		70-130				
1,2,3-Trichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130				
1,2,4-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
1,1,1-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130				
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130				
Trichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		85.8		70-130				
Trichlorofluoromethane (Freon 11)	0.0143	0.010	mg/Kg wet	0.0200		71.4		70-130				
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130				
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130				
1,3,5-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
Vinyl Chloride	0.0133	0.010	mg/Kg wet	0.0200		**66.3**	*	70-130			L-04	
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.7		70-130				
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0488*		mg/Kg wet	0.0500		97.5		70-130				
Surrogate: Toluene-d8	*0.0476*		mg/Kg wet	0.0500		95.2		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0485*		mg/Kg wet	0.0500		96.9		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 B227113 - SW-846 5035											
LCS Dup (B227113-BSD1)				Prepared & Analyzed: 04/01/19							
Acetone	0.250	0.10	mg/Kg wet	0.200		125	40-160	6.89	20		†
tert-Amyl Methyl Ether (TAME)	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130	3.30	20		
Benzene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130	4.69	20		
Bromobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.89	20		
Bromochloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	8.22	20		
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	2.76	20		
Bromoform	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130	3.54	20	V-20	
Bromomethane	0.0119	0.010	mg/Kg wet	0.0200		59.7	40-160	4.87	20	L-14, V-34	†
2-Butanone (MEK)	0.225	0.040	mg/Kg wet	0.200		112	40-160	1.42	20		†
n-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.577	20		
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.702	20		
tert-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.75	20		
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130	3.45	20		
Carbon Disulfide	0.0192	0.0060	mg/Kg wet	0.0200		96.2	70-130	7.49	20		
Carbon Tetrachloride	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	5.41	20		
Chlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	3.15	20		
Chlorodibromomethane	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	4.46	20		
Chloroethane	0.0194	0.010	mg/Kg wet	0.0200		97.2	70-130	6.31	20		
Chloroform	0.0173	0.0040	mg/Kg wet	0.0200		86.5	70-130	2.14	20		
Chloromethane	0.0118	0.010	mg/Kg wet	0.0200		58.9	40-160	2.75	20	L-14	†
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.25	20		
4-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	4.01	20		
1,2-Dibromo-3-chloropropane (DBCP)	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	3.64	20		
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		97.8	70-130	3.66	20		
Dibromomethane	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	10.1	20		
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.867	20		
1,3-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	1.47	20		
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.74	20		
Dichlorodifluoromethane (Freon 12)	0.0106	0.010	mg/Kg wet	0.0200		52.8	40-160	1.12	20	L-14	†
1,1-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130	4.56	20		
1,2-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	5.02	20		
1,1-Dichloroethylene	0.0176	0.0040	mg/Kg wet	0.0200		88.1	70-130	2.15	20		
cis-1,2-Dichloroethylene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130	0.439	20		
trans-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	3.70	20		
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	5.50	20		
1,3-Dichloropropane	0.0181	0.0010	mg/Kg wet	0.0200		90.6	70-130	2.59	20		
2,2-Dichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	2.72	20		
1,1-Dichloropropene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130	4.20	20		
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130	3.67	20		
trans-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130	4.28	20		
Diethyl Ether	0.0184	0.010	mg/Kg wet	0.0200		91.8	70-130	5.17	20		
Diisopropyl Ether (DIPE)	0.0184	0.0010	mg/Kg wet	0.0200		92.0	70-130	3.22	20		
1,4-Dioxane	0.195	0.10	mg/Kg wet	0.200		97.6	40-160	0.510	20	V-16	†
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.950	20		
Hexachlorobutadiene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	1.23	20		
2-Hexanone (MBK)	0.215	0.020	mg/Kg wet	0.200		108	40-160	3.68	20		†
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.65	20		
p-Isopropyltoluene (p-Cymene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.652	20		
Methyl tert-Butyl Ether (MTBE)	0.0260	0.0040	mg/Kg wet	0.0200		130	70-130	7.70	20	V-20	
Methylene Chloride	0.0194	0.010	mg/Kg wet	0.0200		96.8	70-130	3.30	20		
4-Methyl-2-pentanone (MIBK)	0.204	0.020	mg/Kg wet	0.200		102	40-160	5.04	20		†
Naphthalene	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130	0.625	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 B227113 - SW-846 5035											
LCS Dup (B227113-BSD1)				Prepared & Analyzed: 04/01/19							
n-Propylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130	2.53	20	
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	2.48	20	
1,1,1,2-Tetrachloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	3.22	20	
1,1,2,2-Tetrachloroethane	0.0227	0.0010	mg/Kg wet	0.0200		113		70-130	8.01	20	
Tetrachloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	1.20	20	
Tetrahydrofuran	0.0163	0.010	mg/Kg wet	0.0200		81.7		70-130	16.1	20	
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.7		70-130	3.37	20	
1,2,3-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	0.875	20	
1,2,4-Trichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	3.96	20	
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130	1.43	20	
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	3.57	20	
Trichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.2		70-130	6.16	20	
Trichlorofluoromethane (Freon 11)	0.0147	0.010	mg/Kg wet	0.0200		73.6		70-130	3.05	20	
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130	2.32	20	
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7		70-130	0.866	20	
1,3,5-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	2.96	20	
Vinyl Chloride	0.0137	0.010	mg/Kg wet	0.0200		**68.3**	*	70-130	2.99	20	L-04
m+p Xylene	0.0402	0.0040	mg/Kg wet	0.0400		101		70-130	0.834	20	
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	3.72	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0485*		mg/Kg wet	0.0500		97.0		70-130			
Surrogate: Toluene-d8	*0.0488*		mg/Kg wet	0.0500		97.6		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0472*		mg/Kg wet	0.0500		94.5		70-130			
Batch B227135 - SW-846 5035											
Blank (B227135-BLK1)				Prepared & Analyzed: 04/01/19							
Acetone	ND	0.10	mg/Kg wet								
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet								
Benzene	ND	0.0020	mg/Kg wet								
Bromobenzene	ND	0.0020	mg/Kg wet								
Bromochloromethane	ND	0.0020	mg/Kg wet								
Bromodichloromethane	ND	0.0020	mg/Kg wet								
Bromoform	ND	0.0020	mg/Kg wet								
Bromomethane	ND	0.010	mg/Kg wet								V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet								
n-Butylbenzene	ND	0.0020	mg/Kg wet								
sec-Butylbenzene	ND	0.0020	mg/Kg wet								
tert-Butylbenzene	ND	0.0020	mg/Kg wet								
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet								
Carbon Disulfide	ND	0.0060	mg/Kg wet								
Carbon Tetrachloride	ND	0.0020	mg/Kg wet								
Chlorobenzene	ND	0.0020	mg/Kg wet								
Chlorodibromomethane	ND	0.0010	mg/Kg wet								
Chloroethane	ND	0.010	mg/Kg wet								
Chloroform	ND	0.0040	mg/Kg wet								
Chloromethane	ND	0.010	mg/Kg wet								
2-Chlorotoluene	ND	0.0020	mg/Kg wet								
4-Chlorotoluene	ND	0.0020	mg/Kg wet								
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet								
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet								
Dibromomethane	ND	0.0020	mg/Kg wet								
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet								
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet								

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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 B227135 - SW-846 5035										
Blank (B227135-BLK1)			Prepared & Analyzed: 04/01/19							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							L-04
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		93.9	70-130			
Surrogate: Toluene-d8	*0.0480*		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0479*		mg/Kg wet	0.0500		95.8	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 B227135 - SW-846 5035											
LCS (B227135-BS1)				Prepared & Analyzed: 04/01/19							
Acetone	0.200	0.10	mg/Kg wet	0.200		99.9	40-160				†
tert-Amyl Methyl Ether (TAME)	0.0187	0.0010	mg/Kg wet	0.0200		93.3	70-130				
Benzene	0.0164	0.0020	mg/Kg wet	0.0200		82.0	70-130				
Bromobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130				
Bromochloromethane	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130				
Bromodichloromethane	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130				
Bromoform	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			V-20	
Bromomethane	0.0106	0.010	mg/Kg wet	0.0200		52.8	40-160			L-14, V-34	†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		98.9	40-160				†
n-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130				
tert-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
tert-Butyl Ethyl Ether (TBEE)	0.0182	0.0010	mg/Kg wet	0.0200		91.1	70-130				
Carbon Disulfide	0.0182	0.0060	mg/Kg wet	0.0200		91.2	70-130				
Carbon Tetrachloride	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130				
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
Chlorodibromomethane	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130				
Chloroethane	0.0173	0.010	mg/Kg wet	0.0200		86.4	70-130				
Chloroform	0.0166	0.0040	mg/Kg wet	0.0200		83.0	70-130				
Chloromethane	0.0109	0.010	mg/Kg wet	0.0200		54.7	40-160			L-14	†
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130				
4-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130				
1,2-Dibromoethane (EDB)	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130				
Dibromomethane	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130				
1,2-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130				
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130				
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130				
Dichlorodifluoromethane (Freon 12)	0.00943	0.010	mg/Kg wet	0.0200		47.2	40-160			L-14	†
1,1-Dichloroethane	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130				
1,2-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130				
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		83.0	70-130				
cis-1,2-Dichloroethylene	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130				
trans-1,2-Dichloroethylene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130				
1,2-Dichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130				
1,3-Dichloropropane	0.0181	0.0010	mg/Kg wet	0.0200		90.6	70-130				
2,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130				
1,1-Dichloropropene	0.0164	0.0020	mg/Kg wet	0.0200		82.1	70-130				
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		94.0	70-130				
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.3	70-130				
Diethyl Ether	0.0169	0.010	mg/Kg wet	0.0200		84.5	70-130				
Diisopropyl Ether (DIPE)	0.0174	0.0010	mg/Kg wet	0.0200		87.0	70-130				
1,4-Dioxane	0.208	0.10	mg/Kg wet	0.200		104	40-160			V-16	†
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130				
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130				
2-Hexanone (MBK)	0.199	0.020	mg/Kg wet	0.200		99.5	40-160				†
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130				
p-Isopropyltoluene (p-Cymene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0228	0.0040	mg/Kg wet	0.0200		114	70-130			V-20	
Methylene Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.4	70-130				
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.4	40-160				†
Naphthalene	0.0197	0.0040	mg/Kg wet	0.0200		98.4	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 B227135 - SW-846 5035												
LCS (B227135-BS1)				Prepared & Analyzed: 04/01/19								
n-Propylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
Styrene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130				
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		106		70-130				
Tetrachloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130				
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		89.8		70-130				
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130				
1,2,3-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130				
1,2,4-Trichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,1,1-Trichloroethane	0.0175	0.0020	mg/Kg wet	0.0200		87.7		70-130				
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130				
Trichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.7		70-130				
Trichlorofluoromethane (Freon 11)	0.0144	0.010	mg/Kg wet	0.0200		72.0		70-130				
1,2,3-Trichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.5		70-130				
1,2,4-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130				
1,3,5-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130				
Vinyl Chloride	0.0126	0.010	mg/Kg wet	0.0200		**63.0**	*	70-130			L-04	
m+p Xylene	0.0398	0.0040	mg/Kg wet	0.0400		99.6		70-130				
o-Xylene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0472*		mg/Kg wet	0.0500		94.5		70-130				
Surrogate: Toluene-d8	*0.0489*		mg/Kg wet	0.0500		97.9		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0485*		mg/Kg wet	0.0500		97.1		70-130				
LCS Dup (B227135-BSD1)				Prepared & Analyzed: 04/01/19								
Acetone	0.203	0.10	mg/Kg wet	0.200		101		40-160	1.51	20		†
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.0200		99.9		70-130	6.83	20		
Benzene	0.0173	0.0020	mg/Kg wet	0.0200		86.3		70-130	5.18	20		
Bromobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	1.97	20		
Bromochloromethane	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130	8.26	20		
Bromodichloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	5.26	20		
Bromoform	0.0247	0.0020	mg/Kg wet	0.0200		124		70-130	8.19	20	V-20	
Bromomethane	0.0116	0.010	mg/Kg wet	0.0200		57.9		40-160	9.27	20	L-14, V-34	†
2-Butanone (MEK)	0.202	0.040	mg/Kg wet	0.200		101		40-160	2.24	20		†
n-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	8.20	20		
sec-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	7.09	20		
tert-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130	6.80	20		
tert-Butyl Ethyl Ether (TBEE)	0.0195	0.0010	mg/Kg wet	0.0200		97.5		70-130	6.77	20		
Carbon Disulfide	0.0190	0.0060	mg/Kg wet	0.0200		94.9		70-130	3.96	20		
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130	5.27	20		
Chlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	4.58	20		
Chlorodibromomethane	0.0223	0.0010	mg/Kg wet	0.0200		111		70-130	4.73	20		
Chloroethane	0.0183	0.010	mg/Kg wet	0.0200		91.7		70-130	6.00	20		
Chloroform	0.0175	0.0040	mg/Kg wet	0.0200		87.7		70-130	5.52	20		
Chloromethane	0.0114	0.010	mg/Kg wet	0.0200		56.9		40-160	3.87	20	L-14	†
2-Chlorotoluene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	4.96	20		
4-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	6.19	20		
1,2-Dibromo-3-chloropropane (DBCP)	0.0255	0.0020	mg/Kg wet	0.0200		127		70-130	10.2	20		
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130	8.68	20		
Dibromomethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130	6.99	20		
1,2-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130	8.98	20		
1,3-Dichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130	6.33	20		
1,4-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	9.61	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 B227135 - SW-846 5035												
LCS Dup (B227135-BSD1)				Prepared & Analyzed: 04/01/19								
Dichlorodifluoromethane (Freon 12)	0.00957	0.010	mg/Kg wet	0.0200		47.9		40-160	1.52	20	L-14	†
1,1-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.9		70-130	5.14	20		
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8		70-130	6.59	20		
1,1-Dichloroethylene	0.0175	0.0040	mg/Kg wet	0.0200		87.4		70-130	5.17	20		
cis-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.5		70-130	5.81	20		
trans-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.0		70-130	4.60	20		
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130	7.42	20		
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.7		70-130	5.43	20		
2,2-Dichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130	2.84	20		
1,1-Dichloropropene	0.0173	0.0020	mg/Kg wet	0.0200		86.5		70-130	5.19	20		
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.1		70-130	5.26	20		
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130	5.78	20		
Diethyl Ether	0.0179	0.010	mg/Kg wet	0.0200		89.7		70-130	6.05	20		
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.6		70-130	5.25	20		
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		105		40-160	0.495	20	V-16	†
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	4.67	20		
Hexachlorobutadiene	0.0245	0.0020	mg/Kg wet	0.0200		122		70-130	9.69	20		
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106		40-160	6.50	20		†
Isopropylbenzene (Cumene)	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130	4.56	20		
p-Isopropyltoluene (p-Cymene)	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130	6.40	20		
Methyl tert-Butyl Ether (MTBE)	0.0258	0.0040	mg/Kg wet	0.0200		129		70-130	12.5	20	V-20	
Methylene Chloride	0.0192	0.010	mg/Kg wet	0.0200		96.1		70-130	1.81	20		
4-Methyl-2-pentanone (MIBK)	0.209	0.020	mg/Kg wet	0.200		104		40-160	7.05	20		†
Naphthalene	0.0212	0.0040	mg/Kg wet	0.0200		106		70-130	7.39	20		
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	3.25	20		
Styrene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	4.98	20		
1,1,1,2-Tetrachloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112		70-130	7.88	20		
1,1,2,2-Tetrachloroethane	0.0228	0.0010	mg/Kg wet	0.0200		114		70-130	6.66	20		
Tetrachloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	5.16	20		
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.3		70-130	1.62	20		
Toluene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130	3.92	20		
1,2,3-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	5.89	20		
1,2,4-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	9.26	20		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4		70-130	4.14	20		
1,1,2-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130	0.413	20		
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130	5.65	20		
Trichlorofluoromethane (Freon 11)	0.0141	0.010	mg/Kg wet	0.0200		70.4		70-130	2.28	20		
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.6		70-130	7.40	20		
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	7.82	20		
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	5.65	20		
Vinyl Chloride	0.0137	0.010	mg/Kg wet	0.0200		**68.3**	*	70-130	8.03	20	L-04	
m+p Xylene	0.0420	0.0040	mg/Kg wet	0.0400		105		70-130	5.31	20		
o-Xylene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	4.50	20		
Surrogate: 1,2-Dichloroethane-d4	*0.0471*		mg/Kg wet	0.0500		94.2		70-130				
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0478*		mg/Kg wet	0.0500		95.6		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 B227222 - SW-846 3546										
Blank (B227222-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-34
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							V-05
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

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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 B227222 - SW-846 3546												
Blank (B227222-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19								
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*6.15*		mg/Kg wet	6.67		92.2		30-130				
Surrogate: Phenol-d6	*6.54*		mg/Kg wet	6.67		98.0		30-130				
Surrogate: Nitrobenzene-d5	*3.20*		mg/Kg wet	3.33		95.9		30-130				
Surrogate: 2-Fluorobiphenyl	*3.32*		mg/Kg wet	3.33		99.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.60*		mg/Kg wet	6.67		114		30-130				
Surrogate: p-Terphenyl-d14	*4.21*		mg/Kg wet	3.33		126		30-130				
LCS (B227222-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19								
Acenaphthene	1.10	0.17	mg/Kg wet	1.67		65.9		40-140				
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140				
Acetophenone	1.07	0.34	mg/Kg wet	1.67		64.2		40-140				
Aniline	0.607	0.34	mg/Kg wet	1.67		**36.4**	*	40-140			L-07, V-34	
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.2		40-140				
Benzo(a)anthracene	1.18	0.17	mg/Kg wet	1.67		70.6		40-140				
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.6		40-140				
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140				
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		80.9		40-140				
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		74.0		40-140				
Bis(2-chloroethoxy)methane	1.33	0.34	mg/Kg wet	1.67		79.6		40-140				
Bis(2-chloroethyl)ether	1.17	0.34	mg/Kg wet	1.67		70.0		40-140				
Bis(2-chloroisopropyl)ether	1.37	0.34	mg/Kg wet	1.67		82.4		40-140				
Bis(2-Ethylhexyl)phthalate	1.46	0.34	mg/Kg wet	1.67		87.5		40-140				
4-Bromophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.3		40-140				
Butylbenzylphthalate	1.42	0.34	mg/Kg wet	1.67		85.5		40-140				
4-Chloroaniline	0.614	0.66	mg/Kg wet	1.67		36.9		15-140			V-34	†
2-Chloronaphthalene	1.03	0.34	mg/Kg wet	1.67		61.6		40-140				
2-Chlorophenol	1.12	0.34	mg/Kg wet	1.67		67.0		30-130				
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.8		40-140				
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.67		76.0		40-140				
Dibenzofuran	1.17	0.34	mg/Kg wet	1.67		69.9		40-140				
Di-n-butylphthalate	1.34	0.34	mg/Kg wet	1.67		80.2		40-140				
1,2-Dichlorobenzene	0.939	0.34	mg/Kg wet	1.67		56.3		40-140				
1,3-Dichlorobenzene	0.910	0.34	mg/Kg wet	1.67		54.6		40-140				
1,4-Dichlorobenzene	0.922	0.34	mg/Kg wet	1.67		55.3		40-140				
3,3-Dichlorobenzidine	0.818	0.17	mg/Kg wet	1.67		49.1		40-140			V-34	
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.67		65.7		30-130				
Diethylphthalate	1.28	0.34	mg/Kg wet	1.67		77.0		40-140				
2,4-Dimethylphenol	1.15	0.34	mg/Kg wet	1.67		69.3		30-130				
Dimethylphthalate	1.25	0.34	mg/Kg wet	1.67		74.8		40-140				
2,4-Dinitrophenol	0.720	0.66	mg/Kg wet	1.67		43.2		15-140				†
2,4-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		71.7		40-140				
2,6-Dinitrotoluene	1.25	0.34	mg/Kg wet	1.67		75.0		40-140				
Di-n-octylphthalate	1.44	0.34	mg/Kg wet	1.67		86.2		40-140				
1,2-Diphenylhydrazine/Azobenzene	1.32	0.34	mg/Kg wet	1.67		79.0		40-140				
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3		40-140				
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.8		40-140				

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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 B227222 - SW-846 3546											
LCS (B227222-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Hexachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.7	40-140				
Hexachlorobutadiene	0.986	0.34	mg/Kg wet	1.67		59.2	40-140				
Hexachloroethane	0.986	0.34	mg/Kg wet	1.67		59.1	40-140				
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140				
Isophorone	1.18	0.34	mg/Kg wet	1.67		71.1	40-140				
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140				
2-Methylphenol	0.884	0.34	mg/Kg wet	1.67		53.0	30-130			V-05	
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.3	30-130				
Naphthalene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140				
Nitrobenzene	1.06	0.34	mg/Kg wet	1.67		63.3	40-140				
2-Nitrophenol	1.13	0.34	mg/Kg wet	1.67		67.7	30-130				
4-Nitrophenol	1.18	0.66	mg/Kg wet	1.67		70.8	15-140				†
Pentachlorophenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130				
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140				
Phenol	1.11	0.34	mg/Kg wet	1.67		66.7	15-140				†
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140				
Pyridine	0.677	0.34	mg/Kg wet	1.67		40.6	30-140				†
1,2,4-Trichlorobenzene	0.997	0.34	mg/Kg wet	1.67		59.8	40-140				
2,4,5-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.0	30-130				
2,4,6-Trichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.1	30-130				
Surrogate: 2-Fluorophenol	*4.31*		mg/Kg wet	6.67		64.6	30-130				
Surrogate: Phenol-d6	*4.70*		mg/Kg wet	6.67		70.4	30-130				
Surrogate: Nitrobenzene-d5	*2.31*		mg/Kg wet	3.33		69.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.42*		mg/Kg wet	3.33		72.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.26*		mg/Kg wet	6.67		78.8	30-130				
Surrogate: p-Terphenyl-d14	*2.88*		mg/Kg wet	3.33		86.5	30-130				
LCS Dup (B227222-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19							
Acenaphthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	6.68	30		
Acenaphthylene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	6.68	30		
Acetophenone	1.01	0.34	mg/Kg wet	1.67		60.8	40-140	5.50	30		
Aniline	0.760	0.34	mg/Kg wet	1.67		45.6	40-140	22.4	30	V-34	
Anthracene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	8.05	30		
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	6.61	30		
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	5.64	30		
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	4.66	30		
Benzo(g,h,i)perylene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	6.61	30		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	6.27	30		
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	8.95	30		
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.5	40-140	9.68	30		
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		74.8	40-140	9.62	30		
Bis(2-Ethylhexyl)phthalate	1.32	0.34	mg/Kg wet	1.67		79.2	40-140	9.89	30		
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.5	40-140	6.74	30		
Butylbenzylphthalate	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	9.15	30		
4-Chloroaniline	0.779	0.66	mg/Kg wet	1.67		46.7	15-140	23.6	30	V-34	†
2-Chloronaphthalene	0.973	0.34	mg/Kg wet	1.67		58.4	40-140	5.34	30		
2-Chlorophenol	1.05	0.34	mg/Kg wet	1.67		63.2	30-130	5.81	30		
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	5.55	30		
Dibenz(a,h)anthracene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	6.05	30		
Dibenzofuran	1.09	0.34	mg/Kg wet	1.67		65.7	40-140	6.28	30		
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	8.91	30		
1,2-Dichlorobenzene	0.887	0.34	mg/Kg wet	1.67		53.2	40-140	5.66	30		

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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 B227222 - SW-846 3546										
LCS Dup (B227222-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19						
1,3-Dichlorobenzene	0.851	0.34	mg/Kg wet	1.67		51.1	40-140	6.70	30	
1,4-Dichlorobenzene	0.851	0.34	mg/Kg wet	1.67		51.0	40-140	8.01	30	
3,3-Dichlorobenzidine	0.935	0.17	mg/Kg wet	1.67		56.1	40-140	13.3	30	V-34
2,4-Dichlorophenol	1.03	0.34	mg/Kg wet	1.67		61.6	30-130	6.47	30	
Diethylphthalate	1.20	0.34	mg/Kg wet	1.67		72.2	40-140	6.43	30	
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.5	30-130	8.64	30	
Dimethylphthalate	1.17	0.34	mg/Kg wet	1.67		70.3	40-140	6.28	30	
2,4-Dinitrophenol	0.670	0.66	mg/Kg wet	1.67		40.2	15-140	7.24	30	†
2,4-Dinitrotoluene	1.14	0.34	mg/Kg wet	1.67		68.7	40-140	4.36	30	
2,6-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		69.9	40-140	6.93	30	
Di-n-octylphthalate	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	10.3	30	
1,2-Diphenylhydrazine/Azobenzene	1.19	0.34	mg/Kg wet	1.67		71.1	40-140	10.5	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	5.41	30	
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	5.67	30	
Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	5.69	30	
Hexachlorobutadiene	0.925	0.34	mg/Kg wet	1.67		55.5	40-140	6.42	30	
Hexachloroethane	0.922	0.34	mg/Kg wet	1.67		55.3	40-140	6.71	30	
Indeno(1,2,3-cd)pyrene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	6.72	30	
Isophorone	1.09	0.34	mg/Kg wet	1.67		65.7	40-140	7.96	30	
2-Methylnaphthalene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	5.84	30	
2-Methylphenol	0.840	0.34	mg/Kg wet	1.67		50.4	30-130	5.14	30	V-05
3/4-Methylphenol	1.03	0.34	mg/Kg wet	1.67		62.0	30-130	6.64	30	
Naphthalene	0.981	0.17	mg/Kg wet	1.67		58.8	40-140	5.36	30	
Nitrobenzene	0.976	0.34	mg/Kg wet	1.67		58.5	40-140	7.88	30	
2-Nitrophenol	1.06	0.34	mg/Kg wet	1.67		63.7	30-130	6.12	30	
4-Nitrophenol	1.09	0.66	mg/Kg wet	1.67		65.6	15-140	7.69	30	†
Pentachlorophenol	1.01	0.34	mg/Kg wet	1.67		60.7	30-130	7.17	30	
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140	6.54	30	
Phenol	1.03	0.34	mg/Kg wet	1.67		62.1	15-140	7.15	30	†
Pyrene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140	9.21	30	
Pyridine	0.609	0.34	mg/Kg wet	1.67		36.6	30-140	10.6	30	†
1,2,4-Trichlorobenzene	0.946	0.34	mg/Kg wet	1.67		56.8	40-140	5.28	30	
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.3	30-130	5.55	30	
2,4,6-Trichlorophenol	1.15	0.34	mg/Kg wet	1.67		68.7	30-130	6.20	30	
Surrogate: 2-Fluorophenol	*4.09*		mg/Kg wet	6.67		61.4	30-130			
Surrogate: Phenol-d6	*4.33*		mg/Kg wet	6.67		64.9	30-130			
Surrogate: Nitrobenzene-d5	*2.11*		mg/Kg wet	3.33		63.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.23*		mg/Kg wet	3.33		66.9	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.07*		mg/Kg wet	6.67		76.0	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		77.9	30-130			
Matrix Spike (B227222-MS1)		**Source: 19C1572-02**		Prepared: 04/02/19 Analyzed: 04/03/19						
Acenaphthene	1.41	0.18	mg/Kg dry	1.73	ND	81.3	40-140			
Acenaphthylene	1.45	0.18	mg/Kg dry	1.73	ND	83.8	40-140			
Acetophenone	1.37	0.35	mg/Kg dry	1.73	ND	79.0	40-140			
Aniline	0.952	0.35	mg/Kg dry	1.73	ND	55.0	40-140			V-34
Anthracene	1.56	0.18	mg/Kg dry	1.73	ND	90.1	40-140			
Benzo(a)anthracene	1.50	0.18	mg/Kg dry	1.73	ND	86.7	40-140			
Benzo(a)pyrene	1.63	0.18	mg/Kg dry	1.73	ND	94.1	40-140			
Benzo(b)fluoranthene	1.60	0.18	mg/Kg dry	1.73	ND	92.6	40-140			
Benzo(g,h,i)perylene	1.71	0.18	mg/Kg dry	1.73	ND	98.8	40-140			
Benzo(k)fluoranthene	1.62	0.18	mg/Kg dry	1.73	ND	93.5	40-140			

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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 B227222 - SW-846 3546										
Matrix Spike (B227222-MS1)	**Source: 19C1572-02**		Prepared: 04/02/19 Analyzed: 04/03/19							
Bis(2-chloroethoxy)methane	1.70	0.35	mg/Kg dry	1.73	ND	98.0	40-140			
Bis(2-chloroethyl)ether	1.39	0.35	mg/Kg dry	1.73	ND	80.5	40-140			
Bis(2-chloroisopropyl)ether	1.64	0.35	mg/Kg dry	1.73	ND	94.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.90	0.35	mg/Kg dry	1.73	ND	110	40-140			
4-Bromophenylphenylether	1.49	0.35	mg/Kg dry	1.73	ND	85.8	40-140			
Butylbenzylphthalate	1.89	0.35	mg/Kg dry	1.73	ND	109	40-140			
4-Chloroaniline	1.06	0.69	mg/Kg dry	1.73	ND	61.3	40-140			V-34
2-Chloronaphthalene	1.33	0.35	mg/Kg dry	1.73	ND	76.7	40-140			
2-Chlorophenol	1.35	0.35	mg/Kg dry	1.73	ND	77.8	30-130			
Chrysene	1.53	0.18	mg/Kg dry	1.73	ND	88.2	40-140			
Dibenz(a,h)anthracene	1.60	0.18	mg/Kg dry	1.73	ND	92.6	40-140			
Dibenzofuran	1.49	0.35	mg/Kg dry	1.73	ND	86.0	40-140			
Di-n-butylphthalate	1.69	0.35	mg/Kg dry	1.73	ND	97.5	40-140			
1,2-Dichlorobenzene	1.05	0.35	mg/Kg dry	1.73	ND	60.6	40-140			
1,3-Dichlorobenzene	0.978	0.35	mg/Kg dry	1.73	ND	56.5	40-140			
1,4-Dichlorobenzene	1.01	0.35	mg/Kg dry	1.73	ND	58.2	40-140			
3,3-Dichlorobenzidine	1.47	0.18	mg/Kg dry	1.73	ND	85.0	40-140			V-34
2,4-Dichlorophenol	1.34	0.35	mg/Kg dry	1.73	ND	77.4	30-130			
Diethylphthalate	1.64	0.35	mg/Kg dry	1.73	ND	94.9	40-140			
2,4-Dimethylphenol	1.36	0.35	mg/Kg dry	1.73	ND	78.6	30-130			
Dimethylphthalate	1.58	0.35	mg/Kg dry	1.73	ND	91.2	40-140			
2,4-Dinitrophenol	0.961	0.69	mg/Kg dry	1.73	ND	55.5	30-130			
2,4-Dinitrotoluene	1.58	0.35	mg/Kg dry	1.73	ND	91.5	40-140			
2,6-Dinitrotoluene	1.60	0.35	mg/Kg dry	1.73	ND	92.2	40-140			
Di-n-octylphthalate	2.33	0.35	mg/Kg dry	1.73	ND	135	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.60	0.35	mg/Kg dry	1.73	ND	92.4	40-140			
Fluoranthene	1.57	0.18	mg/Kg dry	1.73	ND	90.9	40-140			
Fluorene	1.54	0.18	mg/Kg dry	1.73	ND	88.7	40-140			
Hexachlorobenzene	1.43	0.35	mg/Kg dry	1.73	ND	82.7	40-140			
Hexachlorobutadiene	1.18	0.35	mg/Kg dry	1.73	ND	68.4	40-140			
Hexachloroethane	1.06	0.35	mg/Kg dry	1.73	ND	61.0	40-140			
Indeno(1,2,3-cd)pyrene	1.62	0.18	mg/Kg dry	1.73	ND	93.4	40-140			
Isophorone	1.53	0.35	mg/Kg dry	1.73	ND	88.3	40-140			
2-Methylnaphthalene	1.46	0.18	mg/Kg dry	1.73	ND	84.4	40-140			
2-Methylphenol	1.10	0.35	mg/Kg dry	1.73	ND	63.5	30-130			V-05
3/4-Methylphenol	1.38	0.35	mg/Kg dry	1.73	ND	79.5	30-130			
Naphthalene	1.33	0.18	mg/Kg dry	1.73	ND	77.1	40-140			
Nitrobenzene	1.36	0.35	mg/Kg dry	1.73	ND	78.4	40-140			
2-Nitrophenol	1.45	0.35	mg/Kg dry	1.73	ND	84.0	30-130			
4-Nitrophenol	1.71	0.69	mg/Kg dry	1.73	ND	98.6	30-130			
Pentachlorophenol	1.33	0.35	mg/Kg dry	1.73	ND	77.1	30-130			
Phenanthrene	1.56	0.18	mg/Kg dry	1.73	ND	90.1	40-140			
Phenol	1.41	0.35	mg/Kg dry	1.73	ND	81.5	30-130			
Pyrene	1.68	0.18	mg/Kg dry	1.73	ND	96.8	40-140			
1,2,4-Trichlorobenzene	1.26	0.35	mg/Kg dry	1.73	ND	72.8	40-140			
2,4,5-Trichlorophenol	1.49	0.35	mg/Kg dry	1.73	ND	86.0	30-130			
2,4,6-Trichlorophenol	1.55	0.35	mg/Kg dry	1.73	ND	89.4	30-130			
Surrogate: 2-Fluorophenol	*4.98*		mg/Kg dry	6.92		71.9	30-130			
Surrogate: Phenol-d6	*5.80*		mg/Kg dry	6.92		83.8	30-130			
Surrogate: Nitrobenzene-d5	*2.88*		mg/Kg dry	3.46		83.1	30-130			
Surrogate: 2-Fluorobiphenyl	*3.06*		mg/Kg dry	3.46		88.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.71*		mg/Kg dry	6.92		96.9	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 B227222 - SW-846 3546										
Matrix Spike (B227222-MS1)		**Source: 19C1572-02**		Prepared: 04/02/19 Analyzed: 04/03/19						
Surrogate: p-Terphenyl-d14	*3.56*		mg/Kg dry	3.46		103	30-130			
Matrix Spike Dup (B227222-MSD1)		**Source: 19C1572-02**		Prepared: 04/02/19 Analyzed: 04/03/19						
Acenaphthene	1.41	0.18	mg/Kg dry	1.76	ND	80.2	40-140	0.349	30	
Acenaphthylene	1.42	0.18	mg/Kg dry	1.76	ND	80.6	40-140	2.23	30	
Acetophenone	1.35	0.36	mg/Kg dry	1.76	ND	76.9	40-140	0.981	30	
Aniline	0.897	0.36	mg/Kg dry	1.76	ND	51.0	40-140	5.95	30	V-34
Anthracene	1.51	0.18	mg/Kg dry	1.76	ND	85.9	40-140	3.16	30	
Benzo(a)anthracene	1.48	0.18	mg/Kg dry	1.76	ND	84.1	40-140	1.34	30	
Benzo(a)pyrene	1.59	0.18	mg/Kg dry	1.76	ND	90.5	40-140	2.35	30	
Benzo(b)fluoranthene	1.55	0.18	mg/Kg dry	1.76	ND	88.2	40-140	3.23	30	
Benzo(g,h,i)perylene	1.62	0.18	mg/Kg dry	1.76	ND	91.9	40-140	5.56	30	
Benzo(k)fluoranthene	1.58	0.18	mg/Kg dry	1.76	ND	89.9	40-140	2.25	30	
Bis(2-chloroethoxy)methane	1.65	0.36	mg/Kg dry	1.76	ND	93.9	40-140	2.59	30	
Bis(2-chloroethyl)ether	1.41	0.36	mg/Kg dry	1.76	ND	80.1	40-140	1.09	30	
Bis(2-chloroisopropyl)ether	1.67	0.36	mg/Kg dry	1.76	ND	95.0	40-140	2.00	30	
Bis(2-Ethylhexyl)phthalate	1.87	0.36	mg/Kg dry	1.76	ND	106	40-140	1.51	30	
4-Bromophenylphenylether	1.47	0.36	mg/Kg dry	1.76	ND	83.4	40-140	1.29	30	
Butylbenzylphthalate	1.86	0.36	mg/Kg dry	1.76	ND	106	40-140	1.66	30	
4-Chloroaniline	0.978	0.70	mg/Kg dry	1.76	ND	55.6	40-140	8.13	30	V-34
2-Chloronaphthalene	1.28	0.36	mg/Kg dry	1.76	ND	72.8	40-140	3.66	30	
2-Chlorophenol	1.36	0.36	mg/Kg dry	1.76	ND	77.1	30-130	0.707	30	
Chrysene	1.51	0.18	mg/Kg dry	1.76	ND	85.6	40-140	1.26	30	
Dibenz(a,h)anthracene	1.50	0.18	mg/Kg dry	1.76	ND	85.3	40-140	6.48	30	
Dibenzofuran	1.47	0.36	mg/Kg dry	1.76	ND	83.3	40-140	1.55	30	
Di-n-butylphthalate	1.64	0.36	mg/Kg dry	1.76	ND	93.2	40-140	2.90	30	
1,2-Dichlorobenzene	1.12	0.36	mg/Kg dry	1.76	ND	63.8	40-140	6.65	30	
1,3-Dichlorobenzene	1.07	0.36	mg/Kg dry	1.76	ND	60.6	40-140	8.67	30	
1,4-Dichlorobenzene	1.09	0.36	mg/Kg dry	1.76	ND	61.8	40-140	7.57	30	
3,3-Dichlorobenzidine	1.40	0.18	mg/Kg dry	1.76	ND	79.6	40-140	4.88	30	V-34
2,4-Dichlorophenol	1.34	0.36	mg/Kg dry	1.76	ND	76.3	30-130	0.179	30	
Diethylphthalate	1.60	0.36	mg/Kg dry	1.76	ND	90.7	40-140	2.80	30	
2,4-Dimethylphenol	1.32	0.36	mg/Kg dry	1.76	ND	75.2	30-130	2.79	30	
Dimethylphthalate	1.55	0.36	mg/Kg dry	1.76	ND	88.1	40-140	1.89	30	
2,4-Dinitrophenol	0.961	0.70	mg/Kg dry	1.76	ND	54.6	30-130	0.0384	30	
2,4-Dinitrotoluene	1.56	0.36	mg/Kg dry	1.76	ND	88.5	40-140	1.61	30	
2,6-Dinitrotoluene	1.57	0.36	mg/Kg dry	1.76	ND	89.0	40-140	1.85	30	
Di-n-octylphthalate	2.19	0.36	mg/Kg dry	1.76	ND	124	40-140	6.52	30	
1,2-Diphenylhydrazine/Azobenzene	1.57	0.36	mg/Kg dry	1.76	ND	89.3	40-140	1.75	30	
Fluoranthene	1.55	0.18	mg/Kg dry	1.76	ND	88.0	40-140	1.63	30	
Fluorene	1.52	0.18	mg/Kg dry	1.76	ND	86.1	40-140	1.29	30	
Hexachlorobenzene	1.40	0.36	mg/Kg dry	1.76	ND	79.7	40-140	2.06	30	
Hexachlorobutadiene	1.19	0.36	mg/Kg dry	1.76	ND	67.4	40-140	0.223	30	
Hexachloroethane	1.13	0.36	mg/Kg dry	1.76	ND	64.0	40-140	6.56	30	
Indeno(1,2,3-cd)pyrene	1.52	0.18	mg/Kg dry	1.76	ND	86.6	40-140	5.94	30	
Isophorone	1.52	0.36	mg/Kg dry	1.76	ND	86.4	40-140	0.607	30	
2-Methylnaphthalene	1.45	0.18	mg/Kg dry	1.76	ND	82.1	40-140	1.08	30	
2-Methylphenol	1.08	0.36	mg/Kg dry	1.76	ND	61.2	30-130	1.92	30	V-05
3/4-Methylphenol	1.34	0.36	mg/Kg dry	1.76	ND	75.9	30-130	3.05	30	
Naphthalene	1.32	0.18	mg/Kg dry	1.76	ND	74.8	40-140	1.39	30	
Nitrobenzene	1.33	0.36	mg/Kg dry	1.76	ND	75.7	40-140	1.92	30	
2-Nitrophenol	1.44	0.36	mg/Kg dry	1.76	ND	81.7	30-130	1.14	30	

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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 B227222 - SW-846 3546										
Matrix Spike Dup (B227222-MSD1)	**Source: 19C1572-02**			Prepared: 04/02/19 Analyzed: 04/03/19						
4-Nitrophenol	1.62	0.70	mg/Kg dry	1.76	ND	92.1	30-130	5.22	30	
Pentachlorophenol	1.32	0.36	mg/Kg dry	1.76	ND	74.8	30-130	1.34	30	
Phenanthrene	1.52	0.18	mg/Kg dry	1.76	ND	86.4	40-140	2.58	30	
Phenol	1.39	0.36	mg/Kg dry	1.76	ND	79.0	30-130	1.46	30	
Pyrene	1.67	0.18	mg/Kg dry	1.76	ND	95.1	40-140	0.157	30	
1,2,4-Trichlorobenzene	1.25	0.36	mg/Kg dry	1.76	ND	70.9	40-140	0.952	30	
2,4,5-Trichlorophenol	1.47	0.36	mg/Kg dry	1.76	ND	83.4	30-130	1.39	30	
2,4,6-Trichlorophenol	1.53	0.36	mg/Kg dry	1.76	ND	87.1	30-130	0.948	30	
Surrogate: 2-Fluorophenol	*5.09*		mg/Kg dry	7.04		72.3	30-130			
Surrogate: Phenol-d6	*5.72*		mg/Kg dry	7.04		81.3	30-130			
Surrogate: Nitrobenzene-d5	*2.85*		mg/Kg dry	3.52		80.9	30-130			
Surrogate: 2-Fluorobiphenyl	*2.99*		mg/Kg dry	3.52		85.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.58*		mg/Kg dry	7.04		93.5	30-130			
Surrogate: p-Terphenyl-d14	*3.53*		mg/Kg dry	3.52		100	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B227240 - SW-846 3540C										
Blank (B227240-BLK1)				Prepared: 04/02/19 Analyzed: 04/04/19						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.220*		mg/Kg wet	0.200		110	30-150			
LCS (B227240-BS1)				Prepared: 04/02/19 Analyzed: 04/04/19						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.4	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.2	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		87.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.0	40-140			
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg wet	0.200		95.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		94.8	30-150			
LCS Dup (B227240-BSD1)				Prepared: 04/02/19 Analyzed: 04/04/19						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		99.7	40-140	8.74	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.1	40-140	9.34	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.4	40-140	7.06	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	7.53	30	
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg wet	0.200		104	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B227240 - SW-846 3540C										
Matrix Spike (B227240-MS1)	**Source: 19C1572-01**			Prepared: 04/02/19 Analyzed: 04/04/19						
Aroclor-1016	0.21	0.082	mg/Kg dry	0.206	ND	101	40-140			
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.206	ND	92.5	40-140			
Aroclor-1260	0.20	0.082	mg/Kg dry	0.206	ND	94.7	40-140			
Aroclor-1260 [2C]	0.18	0.082	mg/Kg dry	0.206	ND	85.0	40-140			
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg dry	0.206		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg dry	0.206		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.201*		mg/Kg dry	0.206		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg dry	0.206		95.1	30-150			
Matrix Spike Dup (B227240-MSD1)	**Source: 19C1572-01**			Prepared: 04/02/19 Analyzed: 04/04/19						
Aroclor-1016	0.22	0.079	mg/Kg dry	0.196	ND	114	40-140	6.50	50	
Aroclor-1016 [2C]	0.19	0.079	mg/Kg dry	0.196	ND	98.8	40-140	1.67	50	
Aroclor-1260	0.19	0.079	mg/Kg dry	0.196	ND	97.8	40-140	1.72	50	
Aroclor-1260 [2C]	0.17	0.079	mg/Kg dry	0.196	ND	88.4	40-140	0.925	50	
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg dry	0.196		98.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg dry	0.196		92.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg dry	0.196		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.203*		mg/Kg dry	0.196		103	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B227221 - SW-846 3546										
Blank (B227221-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19						
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.65*		mg/Kg wet	3.33		49.6	40-140			
LCS (B227221-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19						
TPH (C9-C36)	24.6	8.3	mg/Kg wet	33.3		73.8	40-140			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	40-140			
LCS Dup (B227221-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19						
TPH (C9-C36)	25.8	8.3	mg/Kg wet	33.3		77.3	40-140	4.63	30	
Surrogate: 2-Fluorobiphenyl	*2.83*		mg/Kg wet	3.33		85.0	40-140			
Matrix Spike (B227221-MS1)	**Source: 19C1572-01**			Prepared: 04/02/19 Analyzed: 04/04/19						
TPH (C9-C36)	29.7	8.4	mg/Kg dry	33.8	6.28	69.3	40-140			
Surrogate: 2-Fluorobiphenyl	*2.75*		mg/Kg dry	3.38		81.3	40-140			
Matrix Spike Dup (B227221-MSD1)	**Source: 19C1572-01**			Prepared: 04/02/19 Analyzed: 04/04/19						
TPH (C9-C36)	28.2	8.6	mg/Kg dry	34.4	6.28	63.7	40-140	5.31	30	
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg dry	3.44		78.2	40-140			

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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 B227094 - SW-846 7471										
Blank (B227094-BLK1)				Prepared: 04/02/19 Analyzed: 04/03/19						
Mercury	ND	0.025	mg/Kg wet							
LCS (B227094-BS1)				Prepared: 04/02/19 Analyzed: 04/03/19						
Mercury	2.63	0.37	mg/Kg wet	3.71		70.8	65-135			
LCS Dup (B227094-BSD1)				Prepared: 04/02/19 Analyzed: 04/03/19						
Mercury	3.19	0.37	mg/Kg wet	3.71		86.0	65-135	19.3	30	
Batch B227367 - SW-846 3050B										
Blank (B227367-BLK1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B227367-BS1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Antimony	64.2	4.8	mg/Kg wet	89.6		71.6	3.3-196.4			
Arsenic	200	4.8	mg/Kg wet	202		99.1	82.7-117.3			
Barium	260	4.8	mg/Kg wet	270		96.2	82.6-117.8			
Beryllium	90.8	0.48	mg/Kg wet	96.8		93.8	83.4-116.7			
Cadmium	128	0.48	mg/Kg wet	141		91.0	83-117			
Chromium	159	0.96	mg/Kg wet	167		95.4	81.4-118			
Lead	70.9	1.4	mg/Kg wet	73.8		96.0	82.9-117.1			
Nickel	85.7	0.96	mg/Kg wet	89.4		95.8	82.9-117.5			
Selenium	50.0	9.6	mg/Kg wet	49.9		100	79.2-120.6			
Silver	72.1	0.96	mg/Kg wet	71.1		101	79.7-120.1			
Thallium	59.2	4.8	mg/Kg wet	58.5		101	80.7-119.5			
Vanadium	52.7	1.9	mg/Kg wet	58.2		90.6	79-121			
Zinc	246	1.9	mg/Kg wet	264		93.2	80.7-119.3			
LCS Dup (B227367-BSD1)				Prepared: 04/03/19 Analyzed: 04/04/19						
Antimony	60.6	4.9	mg/Kg wet	89.6		67.7	3.3-196.4	5.72	30	
Arsenic	183	4.9	mg/Kg wet	202		90.4	82.7-117.3	9.17	30	
Barium	240	4.9	mg/Kg wet	270		89.0	82.6-117.8	7.82	30	
Beryllium	85.0	0.49	mg/Kg wet	96.8		87.8	83.4-116.7	6.53	30	
Cadmium	125	0.49	mg/Kg wet	141		88.7	83-117	2.48	30	
Chromium	150	0.97	mg/Kg wet	167		89.6	81.4-118	6.23	30	
Lead	65.4	1.5	mg/Kg wet	73.8		88.6	82.9-117.1	8.08	30	
Nickel	82.6	0.97	mg/Kg wet	89.4		92.4	82.9-117.5	3.57	30	
Selenium	46.8	9.7	mg/Kg wet	49.9		93.8	79.2-120.6	6.57	30	
Silver	66.3	0.97	mg/Kg wet	71.1		93.2	79.7-120.1	8.46	30	
Thallium	56.0	4.9	mg/Kg wet	58.5		95.6	80.7-119.5	5.66	30	
Vanadium	48.9	1.9	mg/Kg wet	58.2		84.1	79-121	7.49	30	
Zinc	232	1.9	mg/Kg wet	264		88.0	80.7-119.3	5.71	30	

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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 B227367 - SW-846 3050B											
Duplicate (B227367-DUP1)	**Source: 19C1572-06**			Prepared: 04/03/19 Analyzed: 04/04/19							
Antimony	ND	1.8	mg/Kg dry		ND				NC	35	
Arsenic	5.81	1.8	mg/Kg dry		5.00				14.9	35	
Barium	22.7	1.8	mg/Kg dry		20.9				8.09	35	
Beryllium	0.242	0.18	mg/Kg dry		0.252				4.07	35	
Cadmium	0.195	0.18	mg/Kg dry		ND				NC	35	
Chromium	9.31	0.35	mg/Kg dry		9.05				2.80	35	
Lead	4.65	0.53	mg/Kg dry		3.89				17.7	35	
Nickel	7.38	0.35	mg/Kg dry		7.14				3.33	35	
Selenium	ND	3.5	mg/Kg dry		ND				NC	35	
Silver	ND	0.35	mg/Kg dry		ND				NC	35	
Thallium	ND	1.8	mg/Kg dry		ND				NC	35	
Vanadium	12.6	0.71	mg/Kg dry		12.4				2.10	35	
Zinc	17.1	0.71	mg/Kg dry		16.6				2.58	35	
MRL Check (B227367-MRL1)				Prepared: 04/03/19 Analyzed: 04/04/19							
Lead	0.492	0.48	mg/Kg wet	0.482		102		80-120			
Matrix Spike (B227367-MS1)	**Source: 19C1572-06**			Prepared: 04/03/19 Analyzed: 04/04/19							
Antimony	7.26	1.7	mg/Kg dry	17.2	ND	**42.2**	*	75-125			MS-07
Arsenic	20.8	1.7	mg/Kg dry	17.2	5.00	91.9		75-125			
Barium	39.9	1.7	mg/Kg dry	17.2	20.9	110		75-125			
Beryllium	15.8	0.17	mg/Kg dry	17.2	0.252	90.6		75-125			
Cadmium	15.8	0.17	mg/Kg dry	17.2	0.151	91.2		75-125			
Chromium	25.8	0.34	mg/Kg dry	17.2	9.05	97.3		75-125			
Lead	19.5	0.52	mg/Kg dry	17.2	3.89	90.6		75-125			
Nickel	24.2	0.34	mg/Kg dry	17.2	7.14	99.4		75-125			
Selenium	19.5	3.4	mg/Kg dry	17.2	ND	113		75-125			
Silver	16.7	0.34	mg/Kg dry	17.2	0.306	95.4		75-125			
Thallium	16.4	1.7	mg/Kg dry	17.2	ND	95.1		75-125			
Vanadium	30.1	0.69	mg/Kg dry	17.2	12.4	103		75-125			
Zinc	49.7	0.69	mg/Kg dry	34.4	16.6	96.2		75-125			

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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 B227022 - SW-846 9014										
Blank (B227022-BLK1)				Prepared: 03/30/19 Analyzed: 03/31/19						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B227022-BS1)				Prepared: 03/30/19 Analyzed: 03/31/19						
Reactive Cyanide	9.7	0.40	mg/Kg	10.0		96.9	83.6-111			
Batch B227024 - SW-846 9030A										
Blank (B227024-BLK1)				Prepared: 03/30/19 Analyzed: 03/31/19						
Reactive Sulfide	ND	2.0	mg/L							
LCS (B227024-BS1)				Prepared: 03/30/19 Analyzed: 03/31/19						
Reactive Sulfide	12	2.0	mg/L	14.8		83.8	54.9-121			
Batch B227052 - SW-846 9045C										
LCS (B227052-BS1)				Prepared & Analyzed: 03/30/19						
pH	6.03		pH Units	6.00		101	90-110			
LCS (B227052-BS2)				Prepared & Analyzed: 03/30/19						
pH	6.01		pH Units	6.00		100	90-110			
Duplicate (B227052-DUP1)	**Source: 19C1572-08**			Prepared & Analyzed: 03/30/19						
pH	6.2		pH Units		6.4			2.53	5	H-03
Batch B227054 - SM21-22 2510B Modified										
Blank (B227054-BLK1)				Prepared & Analyzed: 03/31/19						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B227054-BS1)				Prepared & Analyzed: 03/31/19						
Specific conductance	190		µmhos/cm	192		99.3	90-110			
Batch B227087 - SM21-22 2510B Modified										
Blank (B227087-BLK1)				Prepared & Analyzed: 04/01/19						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B227087-BS1)				Prepared & Analyzed: 04/01/19						
Specific conductance	200		µmhos/cm	192		102	90-110			

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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 B227087 - SM21-22 2510B Modified										
Duplicate (B227087-DUP1)	**Source: 19C1572-06**			Prepared & Analyzed: 04/01/19						
Specific conductance	5.0	2.0	µmhos/cm		4.7			5.36	21	
Batch B227324 - % Solids										
Duplicate (B227324-DUP7)	**Source: 19C1572-04**			Prepared: 04/03/19 Analyzed: 04/04/19						
% Solids	94.9		% Wt		94.8			0.0636	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B227240-BS1 Date(s) Analyzed: 04/04/2019 04/04/2019

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B227240-BSD1 Date(s) Analyzed: 04/04/2019 04/04/2019

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.18	10.5
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B227240-MS1 Date(s) Analyzed: 04/04/2019 04/04/2019

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.19	10.0
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.18	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B227240-MSD1 Date(s) Analyzed: 04/04/2019 04/04/2019

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.19	14.6
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
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.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
O-32	A dilution was performed as part of the standard analytical procedure.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration verification (CCV) 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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
1,2-Diphenylhydrazine/Azobenzene	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test® ANALYTICAL LABORATORY   OLH   19C1572

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Fax: 413-525-6405
Email: info@contestlabs.com

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Vortex
Address: 100 N Washington St, Suite 302, Boston MA
Phone: 617-275-5407
Project Name: River's Edge
Project Location: Wayland, MA
Project Number: 460417
Project Manager: K. Sarson
Con-Test Quote Name/Number:
Invoice Recipient: K. Sarson
Sampled By: K. Sarson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-Day ☒

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: EDD
CLP Like Data Pkg Required: ☐
Email To: ksarson@vertexeng.com
Fax To #:

	VOC 8260	SVOC 8270	TPH 8100	MCP 14	PCB 8082w/Soxhlet	Ign/Corr	Reactivity (cyan/sulf)	SpC
# of Containers	3	1	1	1	1	1	1	1
[2] Preservation Code	M	1	1	1	1	1	1	1
[3] Container Code	V	A	A	A	A	A	A	A

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	VOC 8260	SVOC 8270	TPH 8100	MCP 14	PCB 8082w/Soxhlet	Ign/Corr	Reactivity (cyan/sulf)	SpC
1	V-107 (5-10)	3/27/19	1305	X		S		X	X	X	X	X	X	X	X
2	V-108 (0-5)	↓	1315	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
3	V-109 (5-10)	↓	1325	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
4	V-110 (5-10)	↓	1335	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
5	V-111 (0-10)	↓	1345	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
6	V-112 (0-5)	↓	1400	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
7	V-113 (0-5)	3/28/19	1100	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
8	V-114 (5-10)	↓	1135	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓
9	V-115 (5-10)	↓	1200	↓		↓						X			
10	V-116 (0-5)	↓	1230	↓		↓						X			

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Signature	Date/Time
Relinquished by: (signature) [signature]	3-29-19 1040
Received by: (signature) [signature]	3-29-19 1040
Relinquished by: (signature) [signature]	3-29-19 1810
Received by: (signature) [signature] 4.2	3/29/19 1846
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT
Other

Special Requirements
☒ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Vertex

Received By SL Date 3/29/19 Time 1640

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 3 Actual Temp - 4.2

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Mindy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
Meoh-	8	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-	16	Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	12
Meoh-	9	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-	16	Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

PH post hold

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 19C1572
Project Location: Wayland, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

19C1572-01 thru 19C1572-10

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX 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: Lisa Worthington Position: Project Manager

Printed Name: Lisa A. Worthington Date: 04/05/19

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 18, 2019

Kristen Sarson
Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114

Project Location: Wayland, MA
Client Job Number:
Project Number: 46047
Laboratory Work Order Number: 19D0546

Enclosed are results of analyses for samples received by the laboratory on April 10, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

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Vertex Engineering - Boston
100 North Washington St. Suite 302
Boston, MA 02114
ATTN: Kristen Sarson

REPORT DATE: 4/18/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 46047

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19D0546

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Wayland, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
V-SG-101	19D0546-01	Soil Gas		- Modified EPA 3C	
V-SG-102	19D0546-02	Soil Gas		- Modified EPA 3C	
V-SG-103	19D0546-03	Soil Gas		- Modified EPA 3C	
V-SG-104	19D0546-04	Soil Gas		- Modified EPA 3C	
V-SG-105	19D0546-05	Soil Gas		- Modified EPA 3C	
V-SG-106	19D0546-06	Soil Gas		- Modified EPA 3C	

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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.

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 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.

Lisa A. Worthington
Technical Representative

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ANALYTICAL RESULTS

Project Location: Wayland, MA
Date Received: 4/10/2019
Field Sample #: V-SG-101
Sample ID: 19D0546-01
Sample Matrix: Soil Gas
Sampled: 4/9/2019 11:46

Sample Description/Location:
Sub Description/Location:
Canister ID: 1783
Canister Size: 6 liter
Flow Controller ID: 4300
Sample Type: 30 min

Work Order: 19D0546
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -3.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

Modified EPA 3C

Analyte	ppmv Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Methane	ND	50		1	4/15/19 11:27	TPH

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ANALYTICAL RESULTS

Project Location: Wayland, MA
Date Received: 4/10/2019
Field Sample #: V-SG-102
Sample ID: 19D0546-02
Sample Matrix: Soil Gas
Sampled: 4/9/2019 12:48

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 4288
Sample Type: 30 min

Work Order: 19D0546
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -0.5
Receipt Vacuum(in Hg): -.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

Modified EPA 3C

Analyte	ppmv Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Methane	ND	50		1	4/15/19 11:47	TPH

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ANALYTICAL RESULTS

Project Location: Wayland, MA
Date Received: 4/10/2019
Field Sample #: V-SG-103
Sample ID: 19D0546-03
Sample Matrix: Soil Gas
Sampled: 4/9/2019 13:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1165
Canister Size: 6 liter
Flow Controller ID: 4376
Sample Type: 30 min

Work Order: 19D0546
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -3.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

Modified EPA 3C

Analyte	ppmv Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Methane	ND	50		1	4/15/19 12:12	TPH

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ANALYTICAL RESULTS

Project Location: Wayland, MA
Date Received: 4/10/2019
Field Sample #: V-SG-104
Sample ID: 19D0546-04
Sample Matrix: Soil Gas
Sampled: 4/9/2019 14:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1612
Canister Size: 6 liter
Flow Controller ID: 4375
Sample Type: 30 min

Work Order: 19D0546
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

Modified EPA 3C

Analyte	ppmv Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Methane	ND	50		1	4/15/19 12:39	TPH

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ANALYTICAL RESULTS

Project Location: Wayland, MA
Date Received: 4/10/2019
Field Sample #: V-SG-105
Sample ID: 19D0546-05
Sample Matrix: Soil Gas
Sampled: 4/9/2019 15:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1320
Canister Size: 6 liter
Flow Controller ID: 4293
Sample Type: 30 min

Work Order: 19D0546
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

Modified EPA 3C

Analyte	ppmv Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Methane	ND	50		1	4/15/19 13:00	TPH

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ANALYTICAL RESULTS

Project Location: Wayland, MA
Date Received: 4/10/2019
Field Sample #: V-SG-106
Sample ID: 19D0546-06
Sample Matrix: Soil Gas
Sampled: 4/9/2019 17:23

Sample Description/Location:
Sub Description/Location:
Canister ID: 1081
Canister Size: 6 liter
Flow Controller ID: 4292
Sample Type: 30 min

Work Order: 19D0546
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -5.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

Modified EPA 3C

Analyte	ppmv Results	RL	Flag/Qual	Dilution	Date/Time Analyzed	Analyst
Methane	ND	50		1	4/15/19 13:23	TPH

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Sample Extraction Data

Prep Method: TO-15 Prep-Modified EPA 3C

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
19D0546-01 [V-SG-101]	B228259	1.5	1	N/A	1000	0.2	0.3	04/15/19
19D0546-02 [V-SG-102]	B228259	1.5	1	N/A	1000	0.2	0.3	04/15/19
19D0546-03 [V-SG-103]	B228259	1.5	1	N/A	1000	0.2	0.3	04/15/19
19D0546-04 [V-SG-104]	B228259	1.5	1	N/A	1000	0.2	0.3	04/15/19
19D0546-05 [V-SG-105]	B228259	1.5	1	N/A	1000	0.2	0.3	04/15/19
19D0546-06 [V-SG-106]	B228259	1.5	1	N/A	1000	0.2	0.3	04/15/19

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QUALITY CONTROL

Miscellaneous Air Analyses - Quality Control

Analyte	ppmv Results	ppmv RL	ug/m3 Results	ug/m3 RL	Spike Level ppmv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B228259 - TO-15 Prep											
Blank (B228259-BLK1)					Prepared & Analyzed: 04/15/19						
Methane	ND	50									
LCS (B228259-BS1)					Prepared & Analyzed: 04/15/19						
Methane	4490				5000		89.7	80-120			
Duplicate (B228259-DUP1)			**Source: 19D0546-01**		Prepared & Analyzed: 04/15/19						
Methane	ND	50	ND	33		ND				10	
Duplicate (B228259-DUP2)			**Source: 19D0546-02**		Prepared & Analyzed: 04/15/19						
Methane	ND	50	ND	33		ND				10	
Duplicate (B228259-DUP3)			**Source: 19D0546-03**		Prepared & Analyzed: 04/15/19						
Methane	ND	50	ND	33		ND				10	
Duplicate (B228259-DUP4)			**Source: 19D0546-04**		Prepared & Analyzed: 04/15/19						
Methane	ND	50	ND	33		ND				10	
Duplicate (B228259-DUP5)			**Source: 19D0546-05**		Prepared & Analyzed: 04/15/19						
Methane	ND	50	ND	33		ND				10	
Duplicate (B228259-DUP6)			**Source: 19D0546-06**		Prepared & Analyzed: 04/15/19						
Methane	ND	50	ND	33		ND				10	

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

19D0546

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc #378 Rev 1_03242017

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	The Vertex Companies, Inc.
Address:	100 N Washington Street, Ste 302, Boston, MA 02114
Phone:	617-275-5407
Project Name:	River's Edge
Project Location:	Wayland, MA
Project Number:	46047
Project Manager:	Kristen Sarson
Con-Test Quote Name/Number:	
Invoice Recipient:	Kristen Sarson
Sampled By:	Kristen Sarson

Requested Turnaround Time: 7-Day ☐ 10-Day ☐
Due Date: 5-Day TAT

Rush-Approval Required: 1-Day ☐ 3-Day ☐ 2-Day ☐ 4-Day ☐

Data Delivery: Format: PDF ☑ EXCEL ☑
Other: EDD
CLP Like Data Pkg Required: ☐
Email To: ksarson@vertexeng.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	Flow Rate (☐ m³/min ☑ L/min)	Matrix Code	Volume (☑ Liters ☐ m³)	Methane	Initial Pressure ("Hg)	Final Pressure ("Hg)	Lab Receipt Pressure ("Hg)	Summa Can ID	Flow Controller ID
01	V-SG-101	4/9/19@11:16	4/9/19 @11:46	30	0.2	SG	6		30	5	-33	1783	4300
02	V-SG-102	4/9/19 @12:20	4/9/19 @12:48	28	0.2	SG	6		29	0.5	-1	1265	4288
03	V-SG-103	4/9/19 @13:10	4/9/19 @13:40	30	0.2	SG	6		29	4.5	-35	1165	4376
04	V-SG-104	4/9/19 @14:15	4/9/19 @143:45	30	0.2	SG	6		29.5	4.5	-39	1612	4375
05	V-SG-105	4/9/19 @15:15	4/9/19 @15:45	30	0.2	SG	6		28	4	-47	1320	4293
06	V-SG-106	4/9/19 @16:53	4/9/19 @17:23	30	0.2	SG	6		27	4	-52	1081	4292

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other______

Signature	Date/Time
Relinquished by: (signature) [signature] 4/10/19	10:15
Received by: (signature) [signature] 4/10/19	10P
Relinquished by: (signature) [signature] 4/10/19	340
Received by: (signature) [signature] 4.10.19	15:40
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements: MA / CT / Other

Special Requirements:
☑ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ Other

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NELAC and AIHA-LAP, LLC Accredited

Project Entity: ☐ Government ☐ Federal ☐ City ☐ Municipality ☐ 21 J ☐ Brownfield ☐ MWRA ☐ School ☐ MBTA ☐ WRTA

Other: ☐ Chromatogram ☐ AIHA-LAP,LLC

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Vertex

Received By PB | Date 4.10.19 | Time 15:40

How were the samples received? In Cooler _____ | On Ice _____ | No Ice _____ | In Box T | Ambient _____ | Melted Ice _____

Were samples within Temperature Compliance? 2-6°C NA | By Gun # _____ | Actual Temp - _____ | By Blank # _____ | Actual Temp - _____

Was Custody Seal Intact? NA | Were Samples Tampered with? NA

Was COC Relinquished ? T | Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F

Is COC in ink/ Legible? T

Did COC Include all Client T | Analysis T | Sampler Name T

Pertinent Information? Project T | ID's T | Collection Dates/Times T

Are Sample Labels filled out and legible? T

Are there Rushes? F | Who was notified? _____

Samples are received within holding time? T

Proper Media Used? T | Individually Certified Cans? F

Are there Trip Blanks? F | Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	6	6Lit	6	30 min	Nut/Ferrule	6	IC Train	
Tedlar Bags					Tubing	18		
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s		Reg #'s	
	1783		4288
	1265		4320
	1165		4293
	1612		4292
	1320		4315
	1081		4376

Unused Media		Pufs/TO-17's	

Comments:

analysis noted but not checked off

APPENDIX K:

RESUMES OF ENVIRONMENTAL PROFESSIONALS

Kristen Sarson
Project Manager

[ksarson@vertexeng.com]

Expertise:

Environmental Health & Safety
Remediation & Construction Management
Environmental Portfolio Reviews
Indoor Air Quality
Phase II LSI
Climate Change Consulting
Groundwater & Soil Characterization
Land Development
Site Characterization
Phase I ESAs
PCB
Database Review
UST Removal
Analysis
Environmental Permitting
Hazardous Materials/Waste
Vapor Intrusion Investigations & Remediation
Soil Disposal
Radon Sampling
Limited Removal Action (LRA)
Radon Services

Education/Training:

M.S., Environmental Science, Climate Change Impact Assessments, University of Toronto, 2015
HBSc., Geography and Environmental Science, Wilfrid Laurier University, 2010

Biography:

Mrs. Sarson has a strong scientific background, focused in the physical environmental sciences. As a Project Manager, she is responsible for managing and conducting specific job functions related to Brownfield Site redevelopment, Phase I Environmental Site Assessments (ESAs), Phase II Subsurface Investigations, and remediation projects conducted under the Massachusetts Contingency Plan (MCP) including soil, groundwater, soil gas, and indoor air sampling for site and subsurface investigations, oversight of soil boring, monitoring well installation, UST removal, and soil excavation, and providing environmental oversight for remediation and redevelopment projects. Other project-specific tasks include managing regulatory compliance schedules for large remedial development sites, conducting historical and municipal research and file review for due diligence projects, as well as preparing phase reports, Immediate Response Action, Initial Site Investigation, Comprehensive Remedial Action, Tier Classification, Release Abatement Measure, and Temporary and Permanent Solution reports as well as all associated status reports for submittal to the Massachusetts Department of Environmental Protection (MassDEP). Ms. Sarson has also conducted environmental site assessments and limited subsurface investigations across multiple other states including California, Connecticut, Florida, Georgia, Nebraska, New Hampshire, New Jersey, New York, Maine, Minnesota, Virginia, and Wisconsin.
Other pertinent experiences include climate change impact assessments, sea level rise analysis, Tier II reporting, and Environmental Health & Safety compliance projects at multiple New England Universities.
Additionally, Mrs. Sarson places a strong emphasis on health and safety both in and out of the workplace. Based on this focus, Mrs. Sarson is also the Office Health and Safety Manager for the VERTEX Boston Office.

Licenses/Certifications:

8 Hour OSHA HAZWOPER Refresher Training (Annual)
40-Hour OSHA HAZWOPER
10-Hour OSHA Construction Certified
Environmental Professional In Training (EPt), Ontario
Asbestos Inspector
Supervisor: Health & Safety Training for Hazardous Waste Operations
Respiratory Protective Equipment Training

Associations:

ECO Canada Environmental Professional in training

William Gibbons, PG, LSP
Senior Project Manager

[bgibbons@vertexeng.com / 617-830-1540]

Expertise:

Environmental Portfolio Reviews
Phase I ESAs
Phase II LSI
Groundwater & Soil Characterization
Hazardous Materials/Waste
Land Development
Litigation Support & Expert Testimony (Environmental)
LSP Services
PCB
Remedial Design & Feasibility Studies
Remediation & Construction Management
Site Characterization
UST Removal
Vapor Intrusion Investigations & Remediation

Education/Training:

B.S., Geology, University of New Hampshire

Biography:

Mr. Gibbons has more than 33 years of experience in oil and hazardous materials site investigation and remediation. He is an experienced project manager, has provided expert witness services on environmental litigation cases, has given public testimony regarding sensitive site cleanups, and has negotiated response actions with regulatory agencies on behalf of his clients. He has managed or conducted project activities under numerous regulatory systems, including Federal RCRA and CERCLA programs, more than 20 different state programs, and internationally. Mr. Gibbons specializes in the identification of effective and protective solutions to his client's environmental investigation and remediation needs. In doing this he recommends action-alternatives in consideration of the governing regulations and the client's specific needs, including but not limited to their current and foreseeable use of the property and the potential on-site and off-site environmental risks and liabilities.

Licenses/Certifications:

Professional Geologist (PG), PA, PG002931G
Licensed Site Professional, MA, 5217
OSHA 40-hour Hazardous Waste Operations Health and Safety Training
OSHA 10-hour Construction Safety Training

Associations:

Licensed Site Professional Association, Member, past Director, past Officer, and past Chair of Loss Prevention Committee YMCA of Greater Boston, Facilities and Property Committee
YMCA of Greater Boston Camping Services Board of Advisors

Publications/Presentations:

"Environmental Due Diligence Begins During Site Selection," Business Facilities Magazine, June 2008
"Due Diligence for Every Deal," ESA Report Newsletter, Volume 13 Number 7, July 2008
Loss Prevention Case Study, Marine Terminal Investigation, Presentation to Licensed Site Professional Association, April 2002, published on LSPA website
Downgradient Property Status: Case Studies and Lessons Learned, Presentation to Licensed Site Professional Association, May 2005, published on LSPA website
Brownfields Bill Opportunities and Challenges, Industrial Managers Workshop, Concord, MA, 1998
"Environmental Due Diligence: Getting What You Need and Lessons Learned," Invited Speaker, LiveXchange 2008, Huntington Beach, CA November 9-11, 2008

Frank Calandra, PE, LSP
Division Manager - Remediation

[fcalandra@vertexeng.com / 617-459-4962]

Highlights:

Subsurface Investigation Expertise

Expertise:

Environmental Health & Safety
Remediation & Construction Management
Engineering Geology
Environmental Permitting
Lead Paint
Compliance Audits
Biology
Phase II LSI
Civil Engineering
Groundwater & Soil Characterization
Land Development
Remedial Design & Feasibility Studies
LSP Services
Site Characterization
Phase I ESAs
Environmental
Mechanical
Sustainable Energy Services
Transaction Screen
Letter of Reliance
PCB
Database Review
Peer Review
UST Removal
Environmental Permitting
Hazardous Materials/Waste
Litigation Support & Expert Testimony (Environmental)
Vapor Intrusion Investigations & Remediation
PCS
Limited Compliance Review
Soil Disposal
Facility Closure
Radon Sampling
Limited Removal Action (LRA)
Radon Services
SPCC Plan

Education/Training:

M.S., Civil Engineering, Environmental Engineering/Hazardous Materials Management, Tufts University, 2000
B.S., Mechanical Engineering, University of Massachusetts at Lowell, 1990

Biography:

As Remediation Division Manager at VERTEX, Mr. Calandra's primary responsibility is the management of the Boston Office Remediation group. Responsibilities included senior project and program management of varied site assessment and remediation projects under both state and Federal programs. As Licensed Site Professional (LSP), Mr. Calandra has investigated and remediated dozens of hazardous waste and petroleum release site in Massachusetts.

Licenses/Certifications:

Professional Engineer (PE) – Environmental, MA, 46827
Licensed Site Professional, MA, 8396
40 Hour OSHA HAZWOPER Training
8 Hour OSHA HAZWOPER Refresher Training, Annual

Associations:

Licensed Site Professional Association

Wakefield Conservation Commission