RELEASE ABATEMENT MEASURE STATUS REPORT

SOIL EXCAVATION AND REMOVAL

NEW BEDFORD HIGH SCHOOL
NEW BEDFORD, MASSACHUSETTS

Release Tracking Number 4-15685

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) is submitting this Release Abatement Measure Status Report (RAM Status Report) to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City) per 310 CMR 40.0445 of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). This RAM Status Report describes impacted soil removal and site restoration activities conducted to date at the New Bedford High School (NBHS) Campus ("the Site"), under a RAM Plan submitted to MassDEP on April 6, 2011 (TRC, 2011a) and conditionally approved by MassDEP on April 15, 2011. A copy of the MassDEP conditional approval letter dated April 15, 2011 is included as Appendix A. The soil removal activities performed thus far include the following:

- Excavation of soils that contribute to exposure point concentrations (EPCs) in excess of MCP Method 1/Method 2 S-1 soil cleanup standards;
- Temporary soil stockpiling and soil stockpile management at the City's Shawmut Avenue Transfer Station (Transfer Station); and
- Backfilling of the remedial excavations with appropriately documented clean fill material screened in advance for the presence of regulated contaminants.

The NBHS Campus is a portion of the larger disposal site managed under the MCP and tracked by MassDEP under Release Tracking Number (RTN) 4-15685. MCP Special Project status (310 CMR 40.0060) has been established for RTN 4-15685 and other related RTNs. A Site location map is provided as Figure 1. Additional information about this site contained in MCP filings prepared by TRC is available in several references noted herein.

This RAM Status Report is organized as follows: Section 1.0 (Introduction) briefly summarizes information pertaining to TRC's RAM-related activities. Section 2.0 (RAM Status Report) provides the information required for a RAM Status Report per the MCP (310 CMR 40.0445). Section 3.0 (References) lists information sources relied upon in the preparation of this RAM Status Report. Appendix A contains the MassDEP Conditional Approval Letter. Appendix B contains the dust monitoring data and field forms of field activities. Appendix C contains a photograph log. Appendix D contains an overview of the soil excavation areas. Appendix E contains the Bill of Lading documents. Appendix F contains laboratory data packages for data generated under this RAM, Appendix G contains verbal approval from MassDEP for select RAM excavation activities, and Appendix H contains the MassDEP Conditional Approval Letter of the RAM Plan Modification.

2.0 RELEASE ABATEMENT MEASURE STATUS REPORT (310 CMR 40.0445)

This RAM Status Report is organized according to the information needs set forth under 310 CMR 40.0445(2)(a) through (e) of the MCP.

2.1 The Status of Response Operations

The following RAM related activities took place during the reporting period:

- **Excavation –** Excavation of impacted soil that contributes to EPCs in excess of MCP Method 1/Method 2 S-1 soil standards in the top three feet in landscaped areas as well as excavation of impacted soil with benzo(a)pyrene above the Upper Concentration Limit (UCL) at sample location SB-308 (5-feet below ground surface [bgs] at SB-308).

- **Soil Management –** Temporary soil stockpiling and stockpile management at an off-site City-owned location (the Shawmut Avenue Landfill Transfer Station) prior to as needed characterization, stabilization, and disposal.

- **Stockpile Characterization –** Laboratory analytical characterization of segregated soil stockpile material in support of treatment and/or off-site disposal at appropriately licensed facilities.

- **Restoration -** Backfilling of soil excavations with documented contaminant-free fill material screened in advance for the presence of regulated chemicals in excess of Method 1 S-1 soil standards followed by grading and seeding.

These remedial activities took place intermittently between April 16, 2011 and July 13, 2011. TRC provided professional environmental field oversight and conducted environmental monitoring including meteorological monitoring, dust monitoring, and volatile organic compound (VOC) field screening with a photoionization detector (PID) during soil excavation, stockpiling and stockpile management activities. Dust monitoring field logs and data can be found in Appendix B. A summary of the dust monitoring results during field restoration activities is included as Table 1. A summary of the weather station monitoring results are included as Table 2. A representative photograph log of RAM activities conducted during this reporting period is also included as Appendix C.

The pre-defined boundaries for each of the spot excavation areas were pre-marked with wooden survey hubs in the field prior to the implementation of RAM-related excavation activities by Land Planning, Incorporated of Hanson, Massachusetts on April 12, 2011.

On April 15, 2011, TRC oversaw a geophysical survey by Sub-Surface Information Systems (SIS) of East Longmeadow, Massachusetts. The survey was performed to supplement Dig-Safe® utility mark-outs within several areas of excavation (i.e., HA-19, HB-23, HB-39, HB-40, HC-22, HD-19, HD-20, HD-21, HF-14, SB-270 and SB-308) that were known or suspected to contain subsurface utilities (see Appendix D). The geophysical survey was conducted using a Geophysical Subsurface Interface Radar (SIR-3000 and SIR-2000) manufactured by Survey Systems, Incorporated. In addition, those areas exhibiting geophysical anomalies were further

screened with a Verifier G_2 Utility Locator to check for buried electrical lines. Both traceable electrical lines and geophysical anomalies were marked out to the extent of the spot excavations.

Prior to the start of excavation activities, the City's Department of Public Infrastructure (DPI) prepared the temporary soil stockpile area at the Transfer Station with a perimeter silt fence, hay bales, and straw wattles consistent with the design drawings and Soil Management Plan (SMP) included in the RAM Plan. The stockpile area was inspected by TRC prior to the initiation of RAM activities. The DPI also inspected the surveyed pre-marks and utility mark outs and made determinations as to the need for erosion and sedimentation controls near the spot excavations on the NBHS Campus.

Excavation activities began in the eastern portion of the Site on April 16, 2011 at spot excavation locations SS-36 and SB-360. Spot excavation activities continued intermittently based on site access provided by the New Bedford Public Schools department to the pre-determined limits of each spot excavation through July 13, 2011 (see Appendix D). Excavation activities were scheduled during weekday periods, weekends and holidays so as to minimize the amount of work conducted while school was in session or other school activities were taking place. Spot excavation activities were conducted as indicated in the following table:

Spot Excavation Summary Table

Excavation Dates	Spot Excavation Location	Approximate Volume (yd^3)
April 16, 2011	SB-360	193
April 16, 2011	SS-36	118
April 17, 2011	SB-270	107
April 17, 2011	SB-308	79
April 18, 2011	HF-14	353
April 19, 2011	HH-13	171
April 20, 2011	HC-22	45
April 20, May 14 & 21, 2011	HD-19 + HD-20 + HD-21	302
May 14, 2011	HA-19	160
June 20, 2011	SS-32	7
June 27, 2011	HJ-42	42
June 27 & July 5, 2011	HB-39 + HB-40	103
June 27, July 8 & 11, 2011	HF-43 + HE-44	124
July 6 & 7, 2011	HF-40	112
July 11 – 13, 2011	HB-23	314
		Total: 2,230 yd^3

Notes:
yd^3 – cubic yards as measured in-situ

Throughout the implementation of spot excavation activities, soil was removed and live loaded by the DPI into City-owned dump trucks lined with polyethylene sheeting. DPI-supplied excavators and backhoes (e.g., Deere 160 LC excavator and Deere 410J backhoe) were used throughout implementation of the RAM Plan spot soil excavations. Paved surfaces were regularly maintained with a DPI supplied Elgin Pelican® street sweeper. To prevent uncontrolled off-site transport of impacted materials, the loaded trucks were visually inspected to ensure no visible soil materials were present on the body or tires of the vehicles prior to leaving the work

zone. Trucks traveled the pre-determined route to the Transfer Station under a MassDEP Bill of Lading (BOL). A copy of the BOL is included as Appendix E.

Trucks were weighed upon entry at the Transfer Station scale house and soil was segregated into predetermined stockpiles based on the in-situ chemical results and estimated off-site disposal scenarios. Daily inspection and maintenance of the soil stockpiles was performed by DPI, and TRC routinely inspected the stockpile containment and perimeter stormwater control measures during periods of prolonged inactivity as an additional check.

Despite correctly applying the prescribed soil management practices set forth in the RAM Plan, very high winds caused limited portions of the stockpiled material at the Transfer Station to become uncovered in early May. As a result, the DPI added supplemental and thicker polyethylene sheeting and weighting to each of the stockpile covers. The DPI continued to secure the stockpiles with the thicker polyethylene sheeting throughout the remaining spot excavation activities, and no further concerns were noted.

In addition, on May 4, 2011, the MassDEP requested that the City collect samples of surface water within the stockpile area for laboratory analysis. TRC collected four surface water samples (i.e., SW-A-1, SW-B-1, SW-C-1 and SW-D-1) and one duplicate on behalf of the City on May 6, 2011. One sample was collected in the vicinity of each of the four stockpiles and submitted to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts for analysis. Each sample was analyzed for polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs) and the fourteen MCP metals including mercury (total and dissolved). The detected analyte concentrations in each sample were below all MCP Method 1 groundwater standards with the exception of lead (22 micrograms per liter) detected in sample SW-C-1; however, the concentration of dissolved lead was below the Method 1 groundwater standard. The analytical results are summarized in Table 3 and the laboratory analytical data is included in Appendix F.

Upon completion of each of the spot excavations to 3-feet (deeper for the SB-308 excavation as noted below), documented clean backfill was loaded directly into the open excavations. The backfill material was spread throughout the excavation in approximately 12-inch lifts and compacted continuously with a remote controlled Wacker Neuson RT Trench Roller. Backfilling with imported borrow continued until the excavation was brought up to approximately 6-inches below grade to allow for placement of documented clean imported loam, and subsequent re-seeding. Areas that were excavated in June and July will be re-seeded in September. Backfill borrow and loam materials were acquired from sources previously tested by the City. Copies of the laboratory reports from the previous source characterization samples are included in Appendix F. Letters from the individual borrow and loam material suppliers attesting that the source of each material was consistent with the previously sampled and supplied material are also included in Appendix F.

Spot excavation SB-308, located within the Bus Yard parking lot, was excavated to 5-feet below grade due to a benzo(a)pyrene upper concentration limit (UCL) exceedance as described in the MassDEP approved RAM Plan. The existing asphalt was cut and removed by DPI for stockpiling at the Transfer Station with the excavated soil material. Backfilling of the SB-308 spot excavation included the use of documented clean crushed stone and replacement of the

asphalt rather than placement of loam and reseeding. A copy of the laboratory report associated with the crushed stone is included in Appendix F.

During spot excavation activities on April 17, 2011 (i.e., SB-270 and SB-308 locations), groundwater was encountered at approximately 2-feet below grade. As a result, limited dewatering was performed to facilitate excavation and backfill activities. Temporary dewatering basins were constructed adjacent to the two excavations using hay bales and silt fence. The basins served to collect sediment from the groundwater pumped from the excavations while allowing the water to infiltrate in a controlled manner. The DPI also used a vacuum truck to remove water and sediment from the excavations and to collect residual sediment within the temporary dewatering basins. All material removed using the vacuum truck was transported under BOL to the Transfer Station for temporary storage pending off-site disposal. The excavation was backfilled and compacted consistent with the previously described methods.

To facilitate spot excavation activities between April 17 and 19, 2011, a total of seven trees were removed from locations HA-19, HF-14, HH-13 and SB-270. Two additional trees were removed from spot excavation locations HA-19 and HD-21 on May 14, 2011. The tree stumps were transported by DPI to the Transfer Station stockpile area and segregated on polyethylene sheeting pending off-site disposal. A copy of the BOL is included as Appendix E.

Due to the City's desire to keep prominent trees within additional spot excavation locations, no additional trees were cut down after May 14, 2011 as the City explored options for proceeding with the RAM plan field activities and preserving trees located in or near areas targeted for such activities. Considerations for the remaining trees with the potential to be impacted by remedial activities set forth in the RAM Plan are included in the RAM Plan Modification prepared by TRC on behalf of the City. The RAM Plan Modification underwent a 20-day public comment period and was submitted to MassDEP on July 22, 2011 (TRC, 2011b). The RAM Plan Modification included the following proposed changes in RAM Plan activities:

- **Drainage Structures –** In Exposure Point Area HS-5 (Flag Pole Area), subsurface stormwater retention structures will be installed to abate peak runoff volumes;

- **Reduce Proposed Paving with Alternate Risk Reduction Measures –** The implementation of risk reduction measures in the northern portion of the Site at Exposure Point Area HS-8 will support the future use as a solar park (Original RAM Plan identified this area as to be paved);

- **Elimination of On-site Pavement Crushing –** The existing parking lots in the northern portion of the Site will remain in place, therefore on-site crushing of asphalt and concrete as part of the project will not take place;

- **Security Fence in Northern Portion of the Site –** The entire northern portion of the Site will be secured with a temporary chain link fence prior to the commencement of any remediation work in the area; and

- **Consideration for Existing Stands of Trees –**

  - **Areas targeted for paving -** In the areas to be paved where trees are located, the trees will remain in place and the soils surrounding the trees and root systems will be excavated to a depth of three feet; and

  - **Areas targeted for spot excavation -** In the remaining excavations where trees are located, the trees will remain in place and the soils surrounding the trees and root systems will be excavated to a depth of three feet.

Additional RAM-related activities will be completed following MassDEP approval of the RAM Plan Modification; however, following verbal approval from MassDEP on July 1, 2011 (see Appendix G), the DPI proceeded with soil removal at spot excavation locations HF-43 and HB-23 between July 8 and July 13, 2011. The approved approach included removal of soil to 3-feet below grade using a backhoe consistent with previous RAM activities to the degree feasible within the tree root system. In those areas near the tree trunk where the use of heavy equipment is precluded due to damage that could be inflicted on the tree, the DPI started HF-43 by using a water lance and hand tools to remove soil from the tree roots and a vacuum truck to collect the soil to a depth of 3-feet. Excess water was allowed to infiltrate into the excavation. It became clear that DPI would not be able to adequately replace the soil that was removed from the root mass using the water lance. On the second day of excavation, DPI marked out an 8-foot radius from the tree trunk and proceeded with excavation using heavy equipment outside of this radius. Soil beneath the trunk of the tree was left in place and confirmatory samples were collected in support of risk characterization as described in Section 2.2. DPI continued with excavation at HB-23 by marking out an 8-foot radius and collecting confirmatory soil samples for the soil remaining within the root mass.

The RAM Plan Modification was conditionally approved by MassDEP on August 1, 2011. A copy of the MassDEP conditional approval letter dated August 1, 2011 is included as Appendix H.

2.2 Significant New Site Information or Data

Investigatory activities were largely performed in advanced of RAM-related activities. However, limited supplemental investigation activities were conducted during the execution of the RAM, as described below. Soil stockpile characterization was also initiated during this reporting period.

Tree Root Zone Soil Sampling

Following soil removal from spot excavations HB-23 and HF-43, the remaining soil in the vicinity of the two remaining tree trunks (one tree per spot excavation) was sampled for laboratory analysis in support of risk characterization. Composite sidewall samples from within the 0 to 1-foot and 1 to 3-foot depth intervals were collected from unexcavated soil in each location. Composite samples HF-43 COMP (0-1) and HF-43 COMP (1-3) were collected on July 11, 2011 for laboratory analysis of chromium, lead and PCBs. Composite samples HB-23 COMP (0-1) and HB-23 COMP (1-3) were collected on July 13, 2011 for laboratory analysis of barium, chromium, lead and PCBs.

As of the submittal of this RAM Status Report, the laboratory analytical results associated with the HB-23 and HF-43 tree root zone composite samples are undergoing quality control review. A summary of the laboratory analytical results and the laboratory reports will be included in a future MCP regulatory submittal.

Exposure Point HS-8 Supplemental Soil Investigation

In a continued effort to minimize the number of trees targeted for removal during RAM excavation activities, TRC conducted a limited supplemental soil investigation within the southeast corner of Exposure Point (EP) HS-8 near the NBHS northeast parking lot (see Figure 2). The investigation focused on a small portion of EP HS-8 containing three trees that was previously targeted for soil removal to a depth of 3-feet.

As depicted in Figure 2, a total of three (3) soil borings were advanced by TRC using hand tools (stainless steel hand augers) on July 15, 2011. Soil borings SB-368, SB-369 and SB-370 were advanced in accordance with TRC standard operating procedures to a total depth of 2.5 feet, 3 feet and 3 feet, respectively. Refusal was encountered at soil boring location SB-368 at 2.5 feet. TRC collected the following soil samples, including one duplicate, for laboratory analysis:

- SB-368 (0-1)
- SB-368 (1-2.5)
- SB-369 (0-1)
- SB-369 (1-3)
- SB-370 (0-1)
- SB-370 (1-3)
- SB-370D (1-3) – duplicate analysis

Each of the soil samples was submitted to Con-Test for laboratory analysis of PAHs, PCBs, and MCP fourteen metals including mercury. The laboratory analytical results will support further risk characterization of EP HS-8 and a determination as to the necessity for soil removal within the previously described portion of EP HS-8.

As of the submittal of this RAM Status Report, the laboratory analytical results associated with the supplemental EP HS-8 investigation are undergoing final review. A summary of the laboratory analytical results and the laboratory data reports will be included in a future regulatory submittal.

Soil Stockpile Characterization

Following completion of spot excavation activities, soil stockpile characterization samples were collected from the four segregated stockpiles at the Transfer Station in accordance with the requirements of anticipated disposal facilities and MassDEP guidance (e.g., COMM-97-001). Stockpile characterization sampling was conducted by TRC on June 30, 2011 (Stockpile D), July 12, 2011 (Stockpiles A and C), and July 13, 2011 (Stockpile B) in support of possible treatment and/or off-site disposal.

For characterization purposes, composite soil sampling consisted of the collection of samples from eight representative locations within each of the stockpiles or each section of the pile if multiple composite samples were required. The eight representative aliquots were composited by mixing in a stainless steel bowl and placed directly into laboratory supplied glassware. Grab soil samples were collected for the VOC analyses. In anticipation of the acceptance requirements of the disposal facilities, select stockpiles were subdivided and multiple composite samples were collected.

A total of four composite soil samples were collected from Stockpiles A (STKP-A-1 through STKP-A-4) and Stockpile B (STKP-B-1 through STKP-B-4). The samples collected from Stockpiles A and B were submitted for laboratory analysis of Resource Conservation and Recovery Act (RCRA) eight metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), VOCs (grab sample), semivolatile organic compounds (SVOCs), PCBs, Pesticides/Herbicides, Ignitability, Corrosivity, and Reactive Sulfide and Reactive Cyanide. Additional sample volume was held by the laboratory for potential TCLP metals analyses pending receipt of the total metals results.

One composite sample was collected from Stockpile C (STKP-C-1) and Stockpile D (STKP-D-1) for the laboratory analysis of RCRA eight metals, VOCs (grab sample), SVOCs, PCBs, TPH (Diesel Range Organics [DRO]) and Conductivity. Sample volume for potential TCLP metals analyses were placed on hold pending receipt of the total metals results.
All of the stockpile characterization samples were submitted to Con-Test for laboratory analysis. A summary of the soil stockpile characterization analytical results and a discussion of off-site reuse, recycling and/or disposal determinations will be included in a future regulatory submittal.

2.3 Details of and/or Plans for the Management of Remediation Waste, Remedial Wastewater, and/or Remedial Additives

Remediation waste generated to date during the course of this RAM Plan has been excavated, transported, and removed from the Site for temporary off-site management as described herein. Excavated soil is stockpiled on poly sheeting and is securely covered at the Shawmut Avenue Transfer Station pending reuse, recycling and/or disposal determinations that will be detailed in a future regulatory submittal.

As of the submittal of this RAM Status Report, no additional remediation waste, remedial wastewater or remedial additives have been managed under this RAM Plan.

2.4 Other Necessary Information

Dust monitoring was performed during the above referenced activities between April 16, 2011 and July 13, 2011 in accordance with the procedures outlined in Section 6 of the RAM Plan. No dust monitoring was conducted on April 21, 2011 and May 15, 2011.

Dust levels did not exceed the prescribed action limit of 150 micrograms per cubic meter ($\mu g/m^3$) during any of the RAM excavation activities sustained over 15 minutes. Dust Trac units recorded eight intervals that exceeded the standard for more than 2 minutes. Four of the eight recordings occurred at the downwind monitoring location, two of the eight recordings occurred

at the work zone locations and two of the eight were recorded at the upwind location (measuring fugitive dust entering the work zone from offsite). The majority of the recorded exceedences occurred during backfilling activities, using documented clean material, or during times of heavy truck traffic on the transfer station access road near to dust monitors. The impacted soil removed from the excavations was generally moist and did not become airborne; however, the less cohesive fine sand backfill had greater potential to become airborne. Data was downloaded daily and log sheets were kept; both are included in Appendix B. A summary of the dust monitoring results associated with the field restoration activities is included in Table 1. A summary of the weather station monitoring results are included as Table 2.

2.5 LSP Opinion

The objective of this RAM Status report is to apprise MassDEP of the City's activities at the New Bedford High School.

This RAM Status Report has been prepared in accordance with 310 CMR 40.0445 as set forth in the MCP.

David M Sullivan

8/5/2011

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Date

Stamp

3.0 REFERENCES

TRC 2011a *Release Abatement Measure Plan, Soil Excavation and Removal at New Bedford High School, Parker Street Waste Site, New Bedford, Massachusetts.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. April 2011

TRC 2011b *Release Abatement Measure Plan Modification, Soil Excavation and Removal at New Bedford High School, Parker Street Waste Site, New Bedford, Massachusetts.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. July 2011

TABLES

Table 1

Summary of DustTrak™ Data
April 16, 2011 through July 13, 2011
New Bedford High School
New Bedford, Massachusetts

Date	DustTrak Serial Number	Test ID	DustTrak Location / Notes	Maximum [1] (mg/m^3) [2]	Minimum (mg/m^3) [2]	Average (mg/m^3) [2]	Comments
4/16/2011	23319	Test 1	Upwind - Positioned along fence south of SS-36 excavation.	0.020	0.004	0.011	
	85200315	Test 1	Workzone - Positioned adjacent to SS-36 excavation to the north.	0.083	0.007	0.014	
	85201691	Test 1	Downwind - Positioned north of the SS-36 excavation.	0.082	0.007	0.016	
	85202421	Test 1	Upwind - Positioned south of the SB-360 excavation.	0.132	0.008	0.022	
	85200998	Test 1	Workzone - Positioned off northwest corner of SB-360 excavation.	0.009	0.000	0.002	
	85202716	Test 3	Downwind - Positioned NW of the SB-360 excavation.	0.043	0.000	0.010	
	85200724	Test 1	Upwind - Positioned east of stockpile area at Shawmut Street Transfer Station (SSTS)	0.024	0.007	0.015	
	85203252	Test 1	Workzone - Positioned east of stockpiles at SSTS.	0.223	0.008	0.026	
	22259	Test 1	Downwind - Positioned along road in western portion of SSTS stockpile area.	**0.354**	0.009	0.042	Maximum due to dust kicked up along road from street sweeper. Dust from dirt within stockpile area not transported soil. Dust exceedance not sustained for longer than 3 minutes at any point during test.
4/17/2011	23319	Test 1	Upwind - Positioned across driveway entrace west of SB-270 excavation.	0.058	0.011	0.015	
	85201691	Test 1	Workzone - Positioned near sidewalk along Parker Street, east of SB-270 excavation.	0.108	0.007	0.019	
	85200315	Test 1	Downwind - Positioned on pavement east SB-270 excavation.	**0.200**	0.006	0.014	Dust Spike likely due to use of Air Knife. Dust exceedance not sustained for longer than 1 minute at any point during test.
	85202421	Test 1	Upwind - Positioned on grass strip along Parker Street, SW of excavation.	0.004	-0.004	-0.001	
	85200998	Test 1	Workzone - Positioned by lightpole east of SB-308 excavation.	**0.363**	0.005	0.018	Dust exceedance not sustained for longer than 2 minutes at any point during test.
	85202716	Test 1	Downwind - Positioned in NE corner of parking lot that contains SB-308.	0.146	-0.016	0.049	
	85200724	Test 1	Upwind - Positioned along road in SW portion of SSTS stockpile area.	0.013	0.005	0.008	
	85203252	Test 1	Workzone - Positioned east of stockpiles at SSTS.	0.042	0.007	0.010	
	22259	Test 1	Downwind - Positioned in the NE corner of SSTS stockpile area.	**0.517**	0.011	0.021	Unit blew over into puddle causing spike. Ended test and started new. No exceedances up until this point.
	22259	Test 2	Downwind - Positioned in the NE corner of SSTS stockpile area.	0.107	0.008	0.014	
4/18/2011	23319	Test 1	Upwind - Positioned across driveway west of excavation.	0.040	0.009	0.012	
	85200315	Test 1	Workzone - Positioned along sidewalk north of excavation.	0.057	0.008	0.013	
	85200315	Test 2	Workzone - Positioned near school northeast of HF-14 excavation.	**0.288**	0.007	0.026	Gusty wind causes occasionaly spike, Instructed crew to begin backfilling finished areas to minimize dust from open excavation. Dust exceedances not sustained for more than 1 minute at any point during test.
	85202421	Test 1	Near Receptor - Positioned on northern edge of bus stop overhang adjacent to HF-14 excavation.	0.006	0.000	0.001	
	85201691	Test 1	Downwind - Positioned on ledge in courtyard between House 1 and House 2, south of HF-14 excavation.	**0.267**	0.007	0.018	Spike causes by sweeping sidewalk of residual tree cuttings and soil. Dust exceedance not sustained for more that 1 minute at any point during day.
	85200724	Test 1	Upwind - Positioned along road in SW portion of SSTS stockpile area.	0.018	0.007	0.010	
	85203252	Test 1	Workzone - Positioned east of stockpiles at SSTS.	0.127	0.008	0.014	
	22259	Test 1	Downwind - Positioned in northeast corner of SSTS stockpile area.	**0.902**	0.008	0.026	Spike due to concentrated dust event caused by trucks parking next to DustTrak. Dust exceedances not sustained for more than 1 minute at any point during test.

Table 1

Summary of DustTrak™ Data
April 16, 2011 through July 13, 2011
New Bedford High School
New Bedford, Massachusetts

Date	DustTrak Serial Number	Test ID	DustTrak Location / Notes	Maximum [1] (mg/m^3) [2]	Minimum (mg/m^3) [2]	Average (mg/m^3) [2]	Comments
4/19/2011	85201691	Test 1	Upwind - Positioned across driveway north of HH-13 excavation.	0.041	0.012	0.021	
	23319	Test 1	Workzone - Positioned east of the HH-13 excavation.	**0.240**	0.013	0.023	Spike possibly due to rain. Dust exceedance not sustained for more than 1 minute at any point during test.
	85200315	Test 1	Downwind - Positioned along House 2, south of HH-13 excavation.	0.122	0.016	0.028	
	22259	Test 1	Upwind - Positioned along road in SW portion of SSTS stockpile area.	0.037	0.022	0.026	
	22259	Test 2	Upwind - Positionied in NE corner of SSTS stockpile area.	**0.236**	0.011	0.033	Spike likely due to humidity and rain. Dust exceedance not sustained for more than 1 minute at any point during test.
	22259	Test 3	Upwind - Positioned in NE corner of SSTS stockpile area.	0.019	0.012	0.015	
	85203252	Test 1	Workzone - Positioned east of stockpiles at SSTS.	**0.297**	0.010	0.025	Spike likely due to humidity and rain. Dust exceedance not sustained for more than 1 minute at any point during test.
	85203252	Test 2	Workzone - Positioned east of stockpiles at SSTS.	0.019	0.011	0.013	
	85200724	Test 1	Downwind - Positioned in the NE corner of the SSTS stockpile area.	**0.198**	0.022	0.038	Spike likely due to humidity and rain. Dust exceedance not sustained for more than 1 minute at any point during test.
	85200724	Test 2	Downwind - Positioned along the road in the SW portiong of the SSTS stockpile area.	0.030	0.011	0.021	
	85200724	Test 3	Downwind - Positioned along the road in the SW portion of the SSTS stockpile area.	0.118	0.013	0.020	
4/20/2011	23319	Test 1	Upwind - Positioned off southwest corner of House 1, east of HC-22 excavation.	0.027	0.011	0.017	
	85201691	Test 1	Background - Positioned near to House 1	0.059	0.017	0.021	
	85201691	Test 2	Workzone - Positioned along sidewalk east of HC-22 excavation.	0.037	0.017	0.024	
	85200315	Test 1	Downwind - Positioned west of HC-22.	0.046	0.019	0.027	
	85202421	Test 1	Upwind - Positioned off northwest corner of House 1, NE of excavation.	0.042	0.018	0.029	
	85202716	Test 1	Workzone - Positioned near to House 1, east of HD-19, 20 excavation.	0.025	-0.021	0.004	
	85202716	Test 2	Workzone - Positioned near to House 1, east of HD-19, 20 excavation.	0.101	0.012	0.023	
	85200998	Test 1	Downwind - Positioned on west side of parking lot adjacent to HD-19 and 20.	**0.431**	0.012	0.023	Spiked upon start-up. No exceedances for remainder of test.
	85200998	Test 2	Downwind - Positioned on west side of parking lot adjacent to HD-19 and 20.	**0.442**	0.010	0.029	Max spike upon start-up. Two later exceedances were not sustained for more than 1 minute.
	85200724	Test 1	Upwind - Positioned in the NE corner of the SSTS stockpile area.	0.094	0.015	0.023	
	85203252	Test 1	Workzone - Positioned east of stockpiles at SSTS.	**0.409**	0.017	0.028	Dust spike due to trucks traveling on dry stockpile area. Dust exceedances not sustained for more than 2 minutes at any point during test.
	22259	Test 1	Downwind - Positioned in SW corner of SSTS stockpile area.	0.125	0.017	0.026	
	22259	Test 2	Downwind - Positioned in SW corner of SSTS stockpile area.	0.062	0.022	0.028	

Table 1

Summary of DustTrak™ Data
April 16, 2011 through July 13, 2011
New Bedford High School
New Bedford, Massachusetts

Date	DustTrak Serial Number	Test ID	DustTrak Location / Notes	Maximum (1) (mg/m^3) (2)	Minimum (mg/m^3) (2)	Average (mg/m^3) (2)	Comments
5/14/2011	85200315	Test 1	Upwind - Positioned east of the HD-21 excavation.	0.049	0.020	0.027	
	85200315	Test 2	Upwind - Positioned east of the HD-21 excavation.	0.021	0.018	0.020	
	85202421	Test 2	Upwind - Positioned south of the HA-19 excavation.	**0.282**	0.005	0.023	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	852002421	Test 3	Downwind	0.009	0.006	0.008	
	23319	Test 1	Workzone - Positioned north of the HD-21 excavation near to the work area.	0.047	0.013	0.021	
	85200315	Test 2	Workzone - Positioned north of the HD-21 excavation near to the work area.	0.021	0.018	0.020	
	85200315	Test 3	Workzone - Positioned west of the HA-19 excavation adjacent to the work area.	**0.172**	0.016	0.027	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200315	Test 4	Workzone - Positioned west of the HA-19 excavation adjacent tow ork area.	0.038	0.004	0.013	
	85200315	Test 5	Workzone - Positioned west of the HA-19 excavation adjacent to work area.	0.031	0.006	0.012	
	85202421	Test 1	Downwind - Positioned southwest of the HD-21 excavation.	0.041	0.016	0.020	
	23319	Test 2	Downwind - Positioned north of the HA-19 excavation.	0.127	0.004	0.025	
	23319	Test 3	Downwind - Positioned northwest of the HA-19 excavation.	0.122	0.007	0.034	
	22259	Test 2	Upwind - Positioned in southern portion of SSTS stockpile area.	0.046	0.006	0.019	
	85201691	Test 2	Workzone - Positioned near stump stockpile at SSTS stockpile area.	**2.909**	0.005	0.061	Numerous spikes throughout day. Dust exceedance was not sustained for more than 3 minutes at any point during test.
	85200998	Test 2	Downwind - Positioned in northern portion of SSTS stockpile area, near siltfence.	**0.309**	0.009	0.023	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200998	Test 3	Downwind - Positioned in northern portion of SSTS stockpile area.	**0.399**	0.006	0.014	Dust exceedance was not sustained for more than 1 minute at any point during test.
5/21/2011	85201691	Test 1	Workzone - Positioned near southwest corner of House 1 of NBHS	**0.153**	0.020	0.031	Spiked when opening environmental enclosure. Dust exceedance was not sustained for more than 1 minute at any point duringtest.
	85200998	Test 1	Downwind - Positioned west of Faculty Parking lot, west of HD-21 excavation.	**0.303**	0.025	0.032	
	8530104306	May 3 2011_002	Upwind - Positioned near silt fence in northern portion of SSTS stockpile area.	0.036	0.024	0.028	
	8530101603	Test 1_002	Workzone - Positioned in eastern portion of SSTS stockpile area.	0.064	0.021	0.029	
	8530104303	May 21-11 1_001	Downwind - Positioned along road in southwest portion of SSTS stockpile area.	**0.310**	0.018	0.030	Spike due to truck traffic along access road. Dust exceedance was not sustained for more than 1 minute at any point during test.

Table 1

Summary of DustTrak™ Data
April 16, 2011 through July 13, 2011
New Bedford High School
New Bedford, Massachusetts

Date	DustTrak Serial Number	Test ID	DustTrak Location / Notes	Maximum (1) (mg/m^3) (2)	Minimum (mg/m^3) (2)	Average (mg/m^3) (2)	Comments
6/20/2011	22867	Test 1	Upwind - Positioned north of the SS-32 excavation.	0.015	0.006	0.010	
	85200724	Test 1	Workzone - Positioned adjacent to SS-32 excavation.	0.020	0.010	0.012	
	85200317	Test 1	Downwind - Positioned south of the SS-32 excavation.	0.031	0.012	0.014	
	85200885	Test 1	Upwind - Positioned west of driveway at SSTS stockpile area.	**0.168**	**0.168**	**0.168**	Only a one minute test, unit was malfunctioning.
	85200885	Test 2	Upwind - Positioned west of driveway at SSTS stockpile area.	**0.176**	**0.167**	**0.170**	Unit reading very high, likely malfunctioning.
	85203252	Test 1	Workzone - Positioned adjacent to stockpile "B" at SSTS stockpile area.	0.022	0.010	0.011	
	85202716	Test1	Downwind - Positioned along southern edge of stockpile area at SSTS.	-0.004	-0.086	-0.064	Unit should not be reading negative, likely malfunctioning.
6/27/2011	85202716	Test 1	Upwind - Positioned north of the HJ-42 excavation.	-0.012	-0.046	-0.035	Unit should not be reading negative, likely malfunctioning.
	85202716	Test 2	Upwind - Positioned north of the HJ-42 excavation.	0.009	-0.037	-0.012	Unit should not be reading negative, likely malfunctioning.
	22867	Test 1	Workzone - Positioned west of the HJ-42 excavation.	0.034	0.002	0.007	
	22867	Test 2	Workzone - Positioned east of the HE-44 excavation.	0.047	0.004	0.008	
	22867	Test 3	Workzone - Positioned west of HB-39 excavation.	0.012	0.005	0.006	
	85203252	Test 1	Downwind - Positioned south of the HJ-42 excavation.	0.020	0.009	0.011	
	85203252	Test 2	Downwind - Positioned south of the HJ-42 excavation.	**0.966**	0.008	0.025	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85203252	Test 3	Downwind - Positioned to the north of the HE-44 excavation.	**0.355**	0.010	0.022	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85203252	Test 4	Downwind - Positioned north of the HB-39 excavation.	0.029	0.011	0.014	
	85200317	Test 1	Upwind - Positioned in the northwest portion of the stockpile area at SSTS.	**1.087**	0.009	0.022	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200724	Test 1	Workzone - Positioned adjacent to stockpile "C" in the southern portion of the stockpile area until 12:50 when it was moved to the west end of stockpile "A" at SSTS.	**1.613**	0.007	0.023	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200103	Test 1	Downwind - Positioned in the southeast portion of the stockpile area at SSTS.	**3.441**	0.008	0.020	Unit recording one second averages. Dust exceedance was not sustained for more than 1 second during test.
	85200103	Test 2	Downwind - Positioned in southeast portion of stockpile area at SSTS.	0.113	0.006	0.013	
7/5/2011	85200998	Test 4	Upwind - Positioned on the west side of the HB-40 excavation.	**0.270**	0.026	0.042	Dust exceedance was not sustained for greater than 1 minute at any point during test.
	85201691	Test 8	Workzone - Positioned south of the HB-40 excavation.	0.115	0.022	0.034	
	85197769	Test 12	Downwind - Positioned north of the HB-40 excavation.	**0.359**	0.026	0.049	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85202243	Test 1	Upwind - Positioned west of road in northwest portion of SSTS stockpile area.	**1.121**	0.024	0.059	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85196800	Test 1	Downwind - Positioned in southern portion of SSTS stockpile area.	**0.209**	0.026	0.086	Dust exceedance was not sustained for more than 1 minute at any point during test.

Table 1

Summary of DustTrak™ Data
April 16, 2011 through July 13, 2011
New Bedford High School
New Bedford, Massachusetts

Date	DustTrak Serial Number	Test ID	DustTrak Location / Notes	Maximum (1) (mg/m^3) (2)	Minimum (mg/m^3) (2)	Average (mg/m^3) (2)	Comments
7/6/2011	85200317	Test 1	Upwind - Positioned north of the HF-40 excavation.	**0.162**	0.034	0.042	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85197769	Test 1	Downwind - Positioned southeast of HF-40 excavation.	**1.010**	0.031	0.059	Dust exceedance was not sustained for more than 4 minutes at any point during test.
	85202243	Test 2	Workzone - Positioned east of the road in western portion of SSTS stockpile area.	**0.220**	0.028	0.037	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85196800	Test 2	Downwind 0 Positioned west of road in western portion of SSTS stockpile area.	0.043	0.000	0.019	
7/7/2011	85200317	Test 1	Upwind - Positioned north of HF-43 excavation.	**0.366**	0.025	0.044	Dust exceedance was not sustained for more than 5 minutes at any point during test.
	85197769	Test 1	Workzone - Positioned along sidewalk adjacent to HF-43 excavation.	**1.814**	0.024	0.094	Dust exceedance was not sustained for more than 9 minutes at any point during test.
	85200998	Test 1	Downwind - Positioned over HE-44 excavation.	**1.243**	0.022	0.065	Dust exceedance was not sustained for more than 6 minutes at any point during test.
	85202243	Test 1	Upwind - Positioned in southern portion of SSTS stockpile area.	**0.710**	0..021	0.037	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85196800	Test 1	Workzone - Positioned in center of SSTS stockpile area.	**0.654**	0.018	0.046	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85202133	Test 1	Downwind - Positioned along silt fence I northern portion of SSTS stockpile area.	0.078	0.032	0.048	
7/8/2011	85202133	Test 2	Workzone - Positioned just north of HF-43	0.056	0.025	0.034	
7/11/2011	85196800	Test 1	Upwind - Positioned east of HF-43 excavation.	0.050	0.019	0.026	
	85196800	Test 2	Upwind - Positioned on street corner southwest of excavation.	0.068	0.017	0.033	
	85202243	Test 1	Workzone - Positioned north of HB-23 excavation.	0.049	0.035	0.039	
	85202243	Test 2	Workzone - Positioned just east, adjacent to HB-23 excavation.	0.100	0.037	0.047	
	85202133	Test 1	Downwind - Positioned over the HE-44 excavation.	0.056	0.035	0.038	
	85202133	Test 2	Downwind - Positioned east of the HB-23 excavation.	0.114	0.039	0.052	
	85200317	Test 1	Upwind - Positioned on hill in southern portion of SSTS stockpile area.	0.081	0.035	0.043	
	85197769	Test 1	Workzone - Positioned in center of SSTS stockpile area.	**0.249**	0.033	0.045	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200998	Test 1	Downwind - Positioned in northern portion of SSTS stockpile area.	**0.780**	0.032	0.057	Dust exceedance was not sustained for more than 1 minute at any point during test.

Table 1

Summary of DustTrak™ Data
April 16, 2011 through July 13, 2011
New Bedford High School
New Bedford, Massachusetts

Date	DustTrak Serial Number	Test ID	DustTrak Location / Notes	Maximum (1) (mg/m^3) (2)	Minimum (mg/m^3) (2)	Average (mg/m^3) (2)	Comments
7/12/2011	85196800	Test 1	Upwind - Positioned in southwest corner of HB-23 excavation.	0.070	0.040	0.045	
	85196800	Test 2	Upwind - Positioned in southwest corner of HB-23 excavation.	0.077	0.032	0.054	
	85202243	Test 1	Workzone - Positioned just east, adjacent to HB-23 excavation.	**0.346**	0.042	0.068	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85202133	Test 1	Downwind - Positioned east of HB-23 excavation.	**0.215**	0.049	0.071	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200317	Test 2	Upwind - Positioned on hill in southern portion of SSTS stockpile area.	0.129	0.046	0.063	
	85200998	Test 2	Workzone - Positioned in southwest corner of SSTS stockpile area.	**1.711**	0.039	0.102	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85197769	Test 2	Downwind - Positioned in northwest corner of SSTS stockpile area.	**1.653**	0.003	0.106	Dust exceedance was not sustained for more than 2 minutes at any point during test.
7/13/2011	85196800	Test 1	Upwind - Positioned north of the HB-23 excavation.	**0.993**	0.015	0.058	Dust from clean backfill material. Dust exceedance was not sustained for more than 5 minutes at any point during test.
	85202243	Test 1	Workzone - Positioned in southwest corner of HB-23 excavation.	**0.671**	0.030	0.046	Dust exceedance was not sustained for more than 2 minutes at any point during test.
	85202133	Test 1	Downwind - Positioned on the southeast corner of the HB-23 excavation.	**0.283**	0.032	0.045	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200317	Test 1	Upwind - Positioned west of road in western portion of SSTS stockpile area.	**1.446**	0.031	0.053	Dust exceedance was not sustained for more than 5 minutes at any point during test.
	85200998	Test 1	Workzone - Positioned in center of SSTS stockpile area.	**0.263**	0.029	0.061	Dust exceedance was not sustained for more than 1 minute at any point during test.
	85200998	Test 2	Workzone - Positioned in center of SSTS stockpile area.	**2.198**	0.032	0.079	Dust exceedance was not sustained for more than 7 minutes at any point during test.
	85197769	Test 1	Downwind - Positioned near stairs in southern portion of SSTS stockpile area.	**0.887**	0.030	0.049	Dust exceedance was not sustained for more than 3 minutes at any point during test.

NOTES:

TSI DustTrak™ units equipped with size-selective inlet for particles of 10 micrometers in diameter or less (PM_{10}).

(1) Exceedances listed in Table 1 (bold values) are for one minute intervals. Site action level consists of sustained ambient dust levels that exceed the EPA National Ambient Air Quality Standard (NAAQS) of 150 µg/m3 at downwind sampling locations (a sustained reading would consist of a reading lasting 15 minutes or longer). No exceedances occurred during RAM-related activities.

(2) mg/m^3 = milligrams per cubic meter.

Table 2
Summary of Weather Station Data
April 16, 2011 through July 13, 2011
New Bedford, Massachusetts

Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
4/16/2011	11:10	45	56%	31	8	SE	7			
	12:20	46	55%	30.4	9	ESE	7			
	13:55	45	71%	30.35	12-18	ESE	8			
	16:04	45	74%	30.24	8	SE	7			
	18:00	45	78%	30.16	8	ESE-SE	8			
	19:00	45	79%	30.13	9	SE-ESE	8			0.01"
4/17/2011	12:15	60	64%	29.48	7-15	WSW	8	47	58	
	13:20	60	56%	29.5	7-18	WSW-SW	10	45	58	
	14:35	60	53%	29.5	6-15	SW-WSW	9	43	56	
	15:50	58	53%	29.51	8-14	SW	11	40	54	
	18:05	57	45%	29.56	7-10	WSW	8	35	55	0.84"
4/18/2011	7:50	47	75%	29.85	0-8	W	2	39	36	
	9:25	50	54%	29.89	3-9	W	6	34	47	
	10:25	51	46%	29.89	6-14	WSW	9	30	47	
	12:15	56	41%	29.88	4-12	WSW-WNW	7	30	54	
	13:53	57	40%	29.87	3-10	SW-SSW	7	32	55	
	16:20	53	55%	29.9	1-8	SW	5	37	52	0.86"
4/19/2011	8:20	50	82%	29.95	0	NA	0	45	50	
	9:20	51	82%	29.96	0-1	NNW	3	46	51	
	11:00	52	67%	30	3	NNE	3	42	50	
	12:30	52	70%	30	5	NNE	4	43	52	0.0"
4/20/2011	8:10	45	94%	29.92	1	E	0	43	45	
	10:20	46	95%	29.87	3	E	0	45	45	
	10:55	47	95%	29.85	1	E	1		47	
	14:20	51	90%	29.74	1	NE		49		0.03"

Table 2
Summary of Weather Station Data
April 16, 2011 through July 13, 2011
New Bedford, Massachusetts

Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
5/14/2011	8:15	52.8	80%	29.9	2	E				
	10:00	59.8	69%	29.92	1	SSE		49		
	14:00	59.7	72%	29.89	6	SSW			60	0
	16:00	59	71%	29.85	8	SW	6	50	58	0
	17:50	54	72%	29.84	2	S	4	45	54	0
5/21/2011	7:30	55.6	83%	29.846	1	NE	0.25	51	55.6	0
	7:45	55	87%	29.845	2	NNE	0.5	51	55	0
	8:00	55.3	87%	29.855	1	NNW	0.25	52	55.3	0
	8:15	55.3	88%	29.854	3	NNW	0.75	52	55.3	0
	8:30	55.7	88%	29.862	3	NNW	0.75	52	55.7	0
	8:45	55.8	88%	29.867	3	N	0.75	52	55.8	0
	9:00	55.7	88%	29.862	4	NNW	1	52	55.4	0
	9:15	56.2	87%	29.866	2	E	0.5	52	56.2	0
	9:30	56.8	86%	29.858	2	N	0.5	53	56.8	0
	9:35	57.6	85%	29.86	3	NNE	2	53	58	0
	9:45	57.7	85%	29.861	2	NNE	0.5	53	57.7	0
	10:00	58.6	85%	29.855	2	E	0.5	54	58.6	0
	10:15	59	83%	29.86	2	NE	0.5	54	59	0
	10:30	59.1	82%	29.861	2	E	0.5	54	59.1	0
	10:35	59.6	82%	29.87	1	NE	1	54	60	0
	10:45	60	81%	29.863	1	NNE	0.25	54	60	0
	11:00	61.1	80%	29.865	2	NNE	0.5	55	61.1	0
	11:15	62.2	78%	29.863	2	NNE	0.5	55	62.2	0
	11:30	62.7	76%	29.865	3	N	0.75	55	62.7	0
	11:45	63.2	74%	29.865	3	NNE	0.75	55	63.2	0
	12:00	65	71%	29.869	2	NNE	0.5	55	65	0
	12:15	65.9	70%	29.86	2	NNE	0.5	56	65.9	0
	12:30	66.9	71%	29.867	2	E	0.5	57	66.9	0
	12:45	68.5	67%	29.864	2	ESE	0.5	57	68.5	0

Table 2
Summary of Weather Station Data
April 16, 2011 through July 13, 2011
New Bedford, Massachusetts

Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
	1:00	69	66%	29.861	3	SE	0.75	57	69	0
	1:15	68.6	67%	29.863	3	SE	0.75	57	68.6	0
	1:30	69.2	65%	29.862	2	ESE	0.5	57	69.2	0
	1:45	70.1	62%	29.855	2	S	0.5	57	70.1	0
	2:00	70.4	62%	29.854	3	SE	0.75	57	70.4	0
	2:15	69.9	65%	29.853	3	S	0.75	58	69.9	0
	2:30	69.1	64%	29.856	3	ESE	0.75	56	69.1	0
	2:45	69.1	65%	29.854	3	SE	0.75	57	69.1	0
	3:00	68.4	64%	29.854	3	SSE	0.75	56	68.4	0
	3:15	69.5	64%	29.849	3	SSE	0.75	57	69.5	0
6/20/2011	8:05	63.8	76%	29.9	2	NW		55	64	0
	9:05	66.8	71%	29.91	1	NNW	1	57		0
	10:20	72.1	55%	29.91	0	NNW	0	55	72	0
6/27/2011	8:35	76.5	70%	30.01	0	NNE	1	67	77	0.01"
	11:00	88	62%	30.03	1	ESE	1	70	78	0.01"
	12:40	84.2	58%	30.03	2	SSW	3	68	84	
	14:20	84.1	59%	30.01	3	SSW	4	68	84	0.01"
	15:50	88	39%	29.99				55	85	
7/5/2011	6:00 AM	72	53%	29.65	0			54	72	0
	6:15 AM	72.1	53%	29.75	0			54	72	0
	6:30 AM	72.3	54%	29.71	0			55	72	0
	6:45 AM	72.7	55%	29.78	0			56	73	0
	7:00 AM	73.3	56%	29.78	0			57	73	0
	7:15 AM	75.7	71%	29.78	0	NNW		66	76	0.08"
	7:30 AM	76.9	70%	29.77	1	N	0.25	66	77	0
	7:45 AM	78.7	68%	29.77	1	N	0.25	67	79	0
	8:00 AM	79.3	65%	29.77	1	NNE	0.25	67	79	0

Table 2
Summary of Weather Station Data
April 16, 2011 through July 13, 2011
New Bedford, Massachusetts

Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
	8:15 AM	80.9	62%	29.77	1	NNE	0.25	67	81	0
	8:30 AM	82	60%	29.77	1	NNE	0.25	67	82	0
	8:45 AM	83.2	52%	29.77	1	NNE	0.25	64	83	0
	9:00 AM	84.4	51%	29.77	1	ESE	0.25	64	84	0
	9:15 AM	84.6	52%	29.77	1	ESE	0.25	65	85	0
	9:30 AM	85.3	47%	29.77	1	ESE	0.25	63	85	0
	9:45 AM	85.2	51%	29.78	2	ESE	0.5	65	85	0
	10:00 AM	86	52%	29.78	1	ESE	0.25	66	86	0
	10:15 AM	86.5	41%	29.77	1	E	0.25	60	87	0
	10:30 AM	84.9	51%	29.77	4	S	1	65	85	0
	10:45 AM	84.6	57%	29.77	4	S	1	68	85	0
	11:00 AM	85	57%	29.78	5	S	1.25	68	85	0
	11:15 AM	84.3	53%	29.78	5	S	1.25	65	84	0
	11:30 AM	84.8	52%	29.78	4	S	1	65	85	0
	11:45 AM	85.3	51%	29.78	4	S	1	65	85	0
	12:00 PM	85.5	50%	29.78	4	S	1	65	86	0
	12:15 PM	86.3	45%	29.78	4	SSE	1	63	86	0
	12:30 PM	86.3	47%	29.78	4	SSE	1	64	86	0
	12:45 PM	86.4	43%	29.79	5	S	1.25	61	86	0
7/6/2011	6:00 AM	68.3	86	29.844	0	WSW	0	64	68.3	0
	6:15 AM	69.2	86	29.844	0	WSW	0	65	69.2	0
	6:30 AM	70.1	85	29.852	0	WSW	0	65	70.1	0
	6:45 AM	70.1	85	29.852	0	S	0	65	70.1	0
	7:00 AM	70.9	84	29.851	0	SSW	0	66	70.9	0
	7:15 AM	71.7	83	29.851	1	SW	0.25	66	71.7	0
	7:30 AM	72.8	81	29.847	0	SW	0	67	72.8	0
	7:45 AM	74.1	78	29.851	0	SSE	0	67	74.1	0
	8:00 AM	75.4	77	29.852	1	S	0.25	68	75.4	0
	8:15 AM	76.6	73	29.849	1	S	0.25	67	76.6	0

Table 2
Summary of Weather Station Data
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Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
	8:30 AM	77.3	72	29.849	1	SW	0.25	68	77.3	0
	8:45 AM	78.2	73	29.84	1	SW	0.25	69	78.2	0
	9:00 AM	79	68	29.846	1	SW	0.25	68	79	0
	9:15 AM	80.3	66	29.841	1	WSW	0.25	68	80.3	0
	9:30 AM	81.1	66	29.839	1	SSW	0.25	69	81.1	0
	9:45 AM	81.5	66	29.841	2	SW	0.5	69	81.5	0
	10:00 AM	81.7	65	29.839	2	WSW	0.5	69	81.7	0
	10:15 AM	81.2	68	29.834	3	SSW	0.75	70	81.2	0
	10:30 AM	81.8	65	29.834	2	S	0.5	69	81.8	0
	10:45 AM	82	67	29.833	3	SSW	0.75	70	82	0
	11:00 AM	81.7	68	29.832	3	SSW	0.75	70	81.7	0
	11:15 AM	82	65	29.828	3	SSW	0.75	69	82	0
	11:30 AM	81.4	67	29.827	3	S	0.75	69	81.4	0
	11:45 AM	81.5	69	29.829	3	SW	0.75	70	81.5	0
	12:00 PM	80.7	66	29.827	4	WSW	1	68	80.7	0
	12:15 PM	81.4	66	29.823	5	WSW	1.25	69	81.4	0
	12:30 PM	82.2	62	29.822	4	WSW	1	68	82.2	0
	12:45 PM	81.4	62	29.82	4	SW	1	67	81.4	0
	1:00 PM	80.5	63	29.821	4	SW	1	67	80.5	0
	1:15 PM	81	63	29.82	4	SSW	1	67	81	0
	1:30 PM	82	62	29.816	4	SSW	1	68	82	0
	1:45 PM	82.1	62	29.82	5	WSW	1.25	68	82.1	0
	2:00 PM	81.3	64	29.815	6	SW	1.5	68	81.3	0
	2:15 PM	80.8	64	29.821	6	WSW	1.5	68	80.8	0
	2:30 PM	80	68	29.82	5	WSW	1.25	69	80	0
	2:45 PM	80.3	69	29.81	5	SW	1.25	69	80.3	0
	3:00 PM	80.1	69	29.805	5	SW	1.25	69	80.1	0
	3:15 PM	81.6	68	29.801	4	SW	1	70	81.6	0
	3:30 PM	81.5	68	29.799	4	SSW	1	70	81.5	0
	3:45 PM	81.2	68	29.792	4	SW	1	70	81.2	0

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Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
	4:00 PM	80.2	68	29.788	5	SSW	1.25	69	80.2	0
	4:15 PM	80.1	67	29.791	5	SSW	1.25	68	80.1	0
	4:30 PM	78.7	71	29.791	7	SW	1.75	69	78.7	0
	4:45 PM	77.9	73	29.786	6	SW	1.5	69	77.9	0
	5:00 PM	77.1	77	29.786	5	SW	1.25	69	77.1	0
	5:15 PM	76.9	76	29.779	5	SW	1.25	69	76.9	0
	5:30 PM	77.3	78	29.769	5	SW	1.25	70	77.3	0
	5:45 PM	78.4	75	29.761	5	SW	1.25	70	78.4	0
	6:00 PM	78.7	73	29.76	6	WSW	1.5	69	78.7	0
7/7/2011	6:00 AM	70.3	92	29.787	0	---	0	68	70.3	0
	6:15 AM	70.9	92	29.789	0	WNW	0	69	70.9	0
	6:30 AM	71.3	91	29.794	1	SW	0.25	69	71.3	0
	6:45 AM	71.6	90	29.799	1	SW	0.25	69	71.6	0
	7:00 AM	72.4	90	29.799	1	SW	0.25	69	72.4	0
	7:15 AM	73.2	88	29.802	1	W	0.25	69	73.2	0
	7:30 AM	74.1	86	29.803	1	W	0.25	70	74.1	0
	7:45 AM	75.1	83	29.805	1	NW	0.25	70	75.1	0
	8:00 AM	75.9	77	29.807	2	NW	0.5	68	75.9	0
	8:15 AM	77.1	74	29.809	3	NNW	0.75	68	77.1	0
	8:30 AM	77.5	69	29.807	4	N	1	67	77.5	0
	8:45 AM	77.5	68	29.817	3	N	0.75	66	77.5	0
	9:00 AM	77.8	69	29.819	2	NNW	0.5	67	77.8	0
	9:15 AM	78.6	64	29.817	2	NNW	0.5	65	78.6	0
	9:30 AM	78.9	64	29.815	4	NNE	1	66	78.9	0
	9:45 AM	79.9	63	29.816	4	NNW	1	66	79.9	0
	10:00 AM	80.5	62	29.818	4	NNE	1	66	80.5	0
	10:15 AM	81.7	56	29.809	3	NNW	0.75	65	81.7	0
	10:30 AM	82.8	55	29.814	2	NNW	0.5	65	82.8	0
	10:45 AM	83.5	51	29.816	2	NNW	0.5	64	83.5	0

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Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
	11:00 AM	83.3	51	29.819	4	NNW	1	63	83.3	0
	11:15 AM	83.8	50	29.817	2	NNW	0.5	63	83.8	0
	11:30 AM	84.2	49	29.82	3	NNW	0.75	63	84.2	0
	11:45 AM	84.2	48	29.823	3	NW	0.75	62	84.2	0
	12:00 PM	83.3	48	29.825	3	NNW	0.75	62	83.3	0
	12:15 PM	84	49	29.818	3	NNW	0.75	63	84	0
	12:30 PM	84.8	49	29.817	3	NW	0.75	64	84.8	0
	12:45 PM	84.8	48	29.818	4	NNE	1	63	84.8	0
	1:00 PM	85.6	47	29.814	2	NNW	0.5	63	85.6	0
	1:15 PM	86.7	47	29.816	1	NW	0.25	64	86.7	0
	1:30 PM	87	53	29.814	1	SE	0.25	68	87	0
	1:45 PM	85	56	29.81	1	S	0.25	68	85	0
	2:00 PM	84.5	60	29.812	2	SE	0.5	69	84.5	0
	2:15 PM	85.2	58	29.811	3	SE	0.75	69	85.2	0
	2:30 PM	85.2	58	29.813	2	S	0.5	69	85.2	0
	2:45 PM	83.3	60	29.816	2	S	0.5	68	83.3	0
	3:00 PM	81	62	29.816	3	S	0.75	67	81	0
	3:15 PM	82.8	61	29.82	3	SW	0.75	68	82.8	0
	3:30 PM	82.5	60	29.814	2	SSW	0.5	67	82.5	0
	3:45 PM	82.8	62	29.818	3	S	0.75	68	82.8	0
	4:00 PM	83.3	60	29.818	2	SSW	0.5	68	83.3	0
	4:15 PM	83.4	58	29.821	3	SSW	0.75	67	83.4	0
	4:30 PM	82.9	59	29.82	2	S	0.5	67	82.9	0
	4:45 PM	82.7	56	29.818	3	SSW	0.75	65	82.7	0
	5:00 PM	82.1	56	29.814	3	S	0.75	65	82.1	0
	5:15 PM	81.4	58	29.821	4	SW	1	65	81.4	0
	5:30 PM	81.8	54	29.818	2	SSW	0.5	64	81.8	0
	5:45 PM	81	53	29.821	2	S	0.5	62	81	0
	6:00 PM	80.9	57	29.812	2	SSE	0.5	64	80.9	0

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Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
7/8/2011	6:00 AM	70.7	92	29.833	0	ENE	0	68	70.7	0
	6:15 AM	70.8	92	29.838	0	ENE	0	68	70.8	0
	6:30 AM	71.1	92	29.833	0	E	0	69	71.1	0.01
	6:45 AM	71	92	29.839	1	ESE	0.25	69	71	0
	7:00 AM	70.9	92	29.848	0	E	0	69	70.9	0
	7:15 AM	70.7	92	29.848	1	SSE	0.25	68	70.7	0
	7:30 AM	70.7	92	29.848	0	E	0	68	70.7	0
	7:45 AM	70.8	92	29.846	0	E	0	68	70.8	0
	8:00 AM	71.1	92	29.843	1	ESE	0.25	69	71.1	0
	8:15 AM	71.3	92	29.84	1	SE	0.25	69	71.3	0
	8:30 AM	71.6	93	29.844	1	SSE	0.25	70	71.6	0.01
	8:45 AM	71.4	92	29.846	1	SE	0.25	69	71.4	0
	9:00 AM	71.4	92	29.849	0	S	0	69	71.4	0
	9:15 AM	71.3	92	29.842	0	ESE	0	69	71.3	0
	9:30 AM	71.3	93	29.861	2	NNW	0.5	69	71.3	0.18
	9:45 AM	67	89	29.848	3	ESE	0.75	64	67	0.76
	10:00 AM	65.7	91	29.841	1	WSW	0.25	63	65.7	0.23
	10:15 AM	65.8	92	29.837	0	W	0	63	65.8	0.01
	10:30 AM	66.5	93	29.843	1	E	0.25	64	66.5	0.01
	10:45 AM	67.4	93	29.839	0	NW	0	65	67.4	0
	11:00 AM	68.8	93	29.844	1	NE	0.25	67	68.8	0
	11:15 AM	70.1	92	29.848	2	NNE	0.5	68	70.1	0
	11:30 AM	71.5	90	29.843	2	NNE	0.5	68	71.5	0
	11:45 AM	72	86	29.84	2	E	0.5	68	72	0
	12:00 PM	73	86	29.828	1	E	0.25	69	73	0
	12:15 PM	73.2	82	29.83	1	SE	0.25	67	73.2	0
	12:30 PM	74.2	80	29.821	0	ESE	0	68	74.2	0
	12:45 PM	75.4	78	29.815	1	ESE	0.25	68	75.4	0
	1:00 PM	75.5	76	29.82	1	SE	0.25	67	75.5	0
	1:15 PM	75.5	79	29.814	0	ESE	0	69	75.5	0

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	1:30 PM	75.7	77	29.816	1	ESE	0.25	68	75.7	0
	1:45 PM	75.2	79	29.819	1	E	0.25	68	75.2	0
	2:00 PM	74.8	81	29.82	0	E	0	69	74.8	0
	2:15 PM	74.5	81	29.815	1	E	0.25	68	74.5	0
	2:30 PM	74.5	83	29.808	1	ESE	0.25	69	74.5	0
	2:45 PM	74.9	80	29.798	1	E	0.25	68	74.9	0
	3:00 PM	75.6	78	29.79	2	E	0.5	68	75.6	0
	3:15 PM	75.7	80	29.782	2	E	0.5	69	75.7	0
	3:30 PM	77.1	75	29.772	2	E	0.5	69	77.1	0
	3:45 PM	76.6	79	29.771	2	E	0.5	70	76.6	0
	4:00 PM	76.5	78	29.772	2	E	0.5	69	76.5	0
	4:15 PM	76.3	81	29.767	2	E	0.5	70	76.3	0
	4:30 PM	75.7	82	29.765	3	SSE	0.75	70	75.7	0
	4:45 PM	74.2	85	29.762	3	S	0.75	69	74.2	0
	5:00 PM	73.9	85	29.763	2	S	0.5	69	73.9	0
	5:15 PM	72.5	88	29.768	2	S	0.5	69	72.5	0
	5:30 PM	72.4	89	29.765	1	E	0.25	69	72.4	0
	5:45 PM	72.2	89	29.768	1	E	0.25	69	72.2	0
	6:00 PM	72.2	90	29.767	1	SE	0.25	69	72.2	0
7/11/2011	6:00 AM	68.4	92	29.918	1	SSW	0.25	66	68.4	0
	6:15 AM	68.6	92	29.919	1	SSW	0.25	66	68.6	0
	6:30 AM	69	91	29.917	1	SW	0.25	66	69	0
	6:45 AM	69.5	90	29.917	1	SSW	0.25	66	69.5	0
	7:00 AM	70	90	29.918	1	S	0.25	67	70	0
	7:15 AM	70.9	89	29.916	2	SW	0.5	68	70.9	0
	7:30 AM	71.7	87	29.915	3	SSW	0.75	68	71.7	0
	7:45 AM	72.7	85	29.918	2	WSW	0.5	68	72.7	0
	8:00 AM	72.8	83	29.916	3	SW	0.75	67	72.8	0
	8:15 AM	73.6	84	29.915	3	SW	0.75	69	73.6	0

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	8:30 AM	73.4	80	29.914	3	SSW	0.75	67	73.4	0
	8:45 AM	74.2	83	29.909	3	SSW	0.75	69	74.2	0
	9:00 AM	74.9	79	29.905	3	SSW	0.75	68	74.9	0
	9:15 AM	75.6	79	29.903	3	SW	0.75	69	75.6	0
	9:30 AM	76.4	79	29.891	3	SW	0.75	69	76.4	0
	9:45 AM	76.8	78	29.892	4	SW	1	69	76.8	0
	10:00 AM	77.1	79	29.89	4	SW	1	70	77.1	0
	10:15 AM	77.4	78	29.884	4	WSW	1	70	77.4	0
	10:30 AM	78	79	29.885	4	WSW	1	71	78	0
	10:45 AM	78.4	79	29.874	3	SW	0.75	71	78.4	0
	11:00 AM	78.8	76	29.879	4	SW	1	71	78.8	0
	11:15 AM	78.5	76	29.876	5	SW	1.25	70	78.5	0
	11:30 AM	79	77	29.874	5	SW	1.25	71	79	0
	11:45 AM	79.8	75	29.87	4	WSW	1	71	79.8	0
	12:00 PM	80.1	76	29.864	4	SW	1	72	80.1	0
	12:15 PM	80.9	74	29.869	3	SW	0.75	72	80.9	0
	12:30 PM	80.4	73	29.857	5	SW	1.25	71	80.4	0
	12:45 PM	80.9	72	29.857	4	WSW	1	71	80.9	0
	1:00 PM	81.6	72	29.854	4	WSW	1	72	81.6	0
	1:15 PM	82	72	29.848	3	SW	0.75	72	82	0
	1:30 PM	82.3	72	29.85	3	SSW	0.75	72	82.3	0
	1:45 PM	82.5	70	29.842	3	SW	0.75	72	82.5	0
	2:00 PM	82.7	69	29.843	3	SW	0.75	72	82.7	0
	2:15 PM	82.8	69	29.842	4	WSW	1	72	82.8	0
	2:30 PM	82.9	68	29.835	4	S	1	71	82.9	0
	2:45 PM	82.8	65	29.825	4	SW	1	70	82.8	0
	3:00 PM	83.2	62	29.823	4	SW	1	69	83.2	0
	3:15 PM	83	64	29.817	5	SW	1.25	70	83	0
	3:30 PM	82.9	64	29.814	5	SW	1.25	70	82.9	0
	3:45 PM	82.6	66	29.811	5	SW	1.25	70	82.6	0

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	4:00 PM	82.1	66	29.802	5	SW	1.25	70	82.1	0
	4:15 PM	82.1	67	29.794	5	SW	1.25	70	82.1	0
	4:30 PM	81.3	68	29.787	6	SW	1.5	70	81.3	0
	4:45 PM	81.5	68	29.775	5	SW	1.25	70	81.5	0
	5:00 PM	80.9	70	29.759	5	WSW	1.25	70	80.9	0
	5:15 PM	80.8	68	29.76	4	SW	1	69	80.8	0
	5:30 PM	80.3	70	29.757	5	SW	1.25	70	80.3	0
	5:45 PM	79.7	72	29.752	5	WSW	1.25	70	79.7	0
	6:00 PM	79.2	73	29.751	5	SSW	1.25	70	79.2	0
7/12/2011	6:00 AM	72	86	29.621	2	SSW	0.5	68	72	0
	6:15 AM	72.2	86	29.613	3	S	0.75	68	72.2	0
	6:30 AM	72.3	86	29.606	4	SW	1	68	72.3	0
	6:45 AM	72.5	86	29.603	4	SW	1	68	72.5	0
	7:00 AM	72.8	86	29.598	4	SW	1	68	72.8	0
	7:15 AM	73.2	86	29.602	4	WSW	1	69	73.2	0
	7:30 AM	73.5	85	29.596	5	SW	1.25	69	73.5	0
	7:45 AM	74	85	29.593	4	WSW	1	69	74	0
	8:00 AM	74.3	84	29.584	5	SW	1.25	69	74.3	0
	8:15 AM	74.6	84	29.585	6	SSW	1.5	69	74.6	0
	8:30 AM	75.4	83	29.582	6	WSW	1.5	70	75.4	0
	8:45 AM	76	82	29.578	5	WSW	1.25	70	76	0
	9:00 AM	76.4	82	29.575	5	WSW	1.25	71	76.4	0
	9:15 AM	77	80	29.568	6	SW	1.5	70	77	0
	9:30 AM	77.6	80	29.567	5	WSW	1.25	71	77.6	0
	9:45 AM	78	80	29.568	4	WSW	1	71	78	0
	10:00 AM	78	79	29.563	3	WSW	0.75	71	78	0
	10:15 AM	78.7	78	29.564	3	SW	0.75	71	78.7	0
	10:30 AM	78.8	80	29.557	3	SW	0.75	72	78.8	0
	10:45 AM	80.5	79	29.553	3	WSW	0.75	73	80.5	0

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	11:00 AM	81.5	77	29.544	3	SW	0.75	74	81.5	0
	11:15 AM	82.3	76	29.541	2	SW	0.5	74	82.3	0
	11:30 AM	83.6	75	29.54	3	SW	0.75	75	83.6	0
	11:45 AM	84.4	72	29.54	3	WNW	0.75	74	84.4	0
	12:00 PM	85.1	72	29.535	2	W	0.5	75	85.1	0
	12:15 PM	85.6	72	29.536	3	WNW	0.75	76	85.6	0
	12:30 PM	86.2	69	29.527	4	WSW	1	75	86.2	0
	12:45 PM	86.8	67	29.522	4	W	1	75	86.8	0
	1:00 PM	87.6	62	29.521	3	W	0.75	73	87.6	0
	1:15 PM	87.5	62	29.524	4	W	1	73	87.5	0
	1:30 PM	88.5	62	29.519	4	W	1	74	88.5	0
	1:45 PM	88.2	61	29.52	5	W	1.25	73	88.2	0
	2:00 PM	88.8	59	29.514	4	W	1	73	88.8	0
	2:15 PM	89.1	55	29.514	4	NW	1	71	89.1	0
	2:30 PM	88.4	56	29.511	4	WSW	1	71	88.4	0
	2:45 PM	88.5	54	29.508	4	NW	1	70	88.5	0
	3:00 PM	87.9	53	29.511	4	NW	1	69	87.9	0
	3:15 PM	88.2	53	29.509	3	W	0.75	69	88.2	0
	3:30 PM	88	55	29.509	2	NW	0.5	70	88	0
	3:45 PM	89	54	29.506	4	NW	1	70	89	0
	4:00 PM	89.1	51	29.502	4	N	1	69	89.1	0
	4:15 PM	88.7	51	29.501	3	NNW	0.75	68	88.7	0
	4:30 PM	89	54	29.502	2	WNW	0.5	70	89	0
	4:45 PM	89.1	54	29.501	2	NNW	0.5	70	89.1	0
	5:00 PM	88.8	52	29.5	3	NNW	0.75	69	88.8	0
	5:15 PM	89.2	51	29.506	3	NW	0.75	69	89.2	0
	5:30 PM	89.4	51	29.498	4	W	1	69	89.4	0
	5:45 PM	89.5	52	29.505	4	WNW	1	70	89.5	0
	6:00 PM	89.1	52	29.5	3	W	0.75	69	89.1	0

Table 2
Summary of Weather Station Data
April 16, 2011 through July 13, 2011
New Bedford, Massachusetts

Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
7/13/2011	6:00 AM	72.8	73	29.589	1	N	0.25	64	72.8	0
	6:15 AM	72.9	73	29.591	1	NNW	0.25	64	72.9	0
	6:30 AM	73.4	72	29.597	1	NNW	0.25	64	73.4	0
	6:45 AM	73.9	72	29.598	1	NNW	0.25	64	73.9	0
	7:00 AM	74.6	70	29.593	3	NNW	0.75	64	74.6	0
	7:15 AM	75.2	69	29.597	3	NNW	0.75	64	75.2	0
	7:30 AM	75.9	68	29.594	4	N	1	65	75.9	0
	7:45 AM	76.4	67	29.596	4	N	1	65	76.4	0
	8:00 AM	76.8	66	29.591	5	NNW	1.25	65	76.8	0
	8:15 AM	77.6	64	29.599	5	NNW	1.25	65	77.6	0
	8:30 AM	78.4	63	29.596	5	NNE	1.25	65	78.4	0
	8:45 AM	78.8	63	29.599	4	N	1	65	78.8	0
	9:00 AM	79.4	62	29.599	4	NNW	1	65	79.4	0
	9:15 AM	80.1	63	29.601	3	NNW	0.75	66	80.1	0
	9:30 AM	80.9	59	29.597	3	NNW	0.75	65	80.9	0
	9:45 AM	81.3	56	29.597	3	NNE	0.75	64	81.3	0
	10:00 AM	81.8	60	29.6	3	NNW	0.75	67	81.8	0
	10:15 AM	82.1	61	29.598	3	NNW	0.75	67	82.1	0
	10:30 AM	82.5	60	29.602	4	NNW	1	67	82.5	0
	10:45 AM	82.7	58	29.601	4	NNE	1	66	82.7	0
	11:00 AM	83.4	59	29.605	3	NNE	0.75	68	83.4	0
	11:15 AM	83.6	57	29.602	3	NW	0.75	67	83.6	0
	11:30 AM	84	54	29.606	2	NNW	0.5	66	84	0
	11:45 AM	83.5	55	29.604	2	NNW	0.5	66	83.5	0
	12:00 PM	82.9	56	29.603	1	N	0.25	66	82.9	0
	12:15 PM	82.6	61	29.602	1	NE	0.25	68	82.6	0
	12:30 PM	82.1	62	29.599	0	SE	0	68	82.1	0
	12:45 PM	83	60	29.596	2	SSE	0.5	68	83	0
	1:00 PM	81.9	60	29.598	2	SE	0.5	67	81.9	0
	1:15 PM	83	60	29.598	1	SE	0.25	68	83	0

Table 2
Summary of Weather Station Data
April 16, 2011 through July 13, 2011
New Bedford, Massachusetts

Date	Time	Temp. (ºF)	Humidity	Barometric Pressure (in Hg)	Wind Speed (mph)	Wind Direction	10 min wind speed average (mph)	Dew Point (ºF)	Wind Chill (ºF)	Total Rain (inches)
	1:30 PM	83	61	29.593	1	SE	0.25	68	83	0
	1:45 PM	83.5	59	29.596	1	SE	0.25	68	83.5	0
	2:00 PM	83.6	58	29.589	2	E	0.5	67	83.6	0
	2:15 PM	83.4	59	29.588	2	S	0.5	68	83.4	0
	2:30 PM	84.4	56	29.585	1	SE	0.25	67	84.4	0
	2:45 PM	82.6	57	29.585	2	E	0.5	66	82.6	0
	3:00 PM	80.9	61	29.585	2	E	0.5	66	80.9	0
	3:15 PM	80	64	29.587	2	SSE	0.5	67	80	0
	3:30 PM	79.6	66	29.588	1	ESE	0.25	67	79.6	0
	3:45 PM	79.6	62	29.582	2	SE	0.5	65	79.6	0
	4:00 PM	78.8	65	29.589	2	ESE	0.5	66	78.8	0
	4:15 PM	80.2	63	29.585	2	SE	0.5	67	80.2	0
	4:30 PM	79.2	65	29.584	2	E	0.5	66	79.2	0
	4:45 PM	78.7	64	29.582	2	SE	0.5	66	78.7	0
	5:00 PM	78.7	64	29.575	2	SSE	0.5	66	78.7	0
	5:15 PM	80	62	29.572	3	SSE	0.75	66	80	0
	5:30 PM	80.3	63	29.572	2	SSE	0.5	67	80.3	0
	5:45 PM	78.7	65	29.566	3	SSE	0.75	66	78.7	0
	6:00 PM	78.7	66	29.563	3	S	0.75	66	78.7	0

Notes:
F - Fahrenheit
in Hg - inches of Mercury
mph - miles per hour
-Weather data collected on 4/16-20/11, 5/14/11, 6/20/11 and 6/27/11 was collected manually from weather station.
-Weather data collected on 5/21/2011, 7/5-8/11 and 7/11-13/11 was recorded in 15-minutes intervals by the weather station's internal logging system.

Table 3
Summary of Analytical Results for Surface Water Samples
New Bedford High School Stockpile Area
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:			SW-A-1		SW-B-1	SW-C-1	SW-D-1
		Sample Date:			5/6/2011	5/6/2011	5/6/2011	5/6/2011	5/6/2011
		GW-1	GW-2	GW-3		Field Dup			
PAHs									
(ug/L)	2-Methylnaphthalene	10	2,000	20,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Acenaphthene	20	NS	6,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Acenaphthylene	30	10,000	40	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Anthracene	60	NS	30	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(a)anthracene	1	NS	1,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(a)pyrene	0.2	NS	500	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(b)fluoranthene	1	NS	400	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(g,h,i)perylene	50	NS	20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(k)fluoranthene	1	NS	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Chrysene	2	NS	70	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Dibenz(a,h)anthracene	0.5	NS	40	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Fluoranthene	90	NS	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Fluorene	30	NS	40	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Indeno(1,2,3-cd)pyrene	0.5	NS	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Naphthalene	140	1,000	20,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Phenanthrene	40	NS	10,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Pyrene	80	NS	20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
PCBs									
(ug/L)	Aroclor-1016	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1221	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1232	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1242	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1248	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1254	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1260	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1262	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1268	0.5	5	10	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Metals, total									
(ug/L)	Antimony	6	NS	8,000	**2.8**	**2.8**	1.0 U	**1.2**	1.0 U
	Arsenic	10	NS	900	0.40 U	0.40 U	0.40 U	**1.4**	0.40 U
	Barium	2,000	NS	50,000	**16**	**16**	**130**	**49**	**33**
	Beryllium	4	NS	200	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
	Cadmium	5	NS	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Chromium	100	NS	300	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Lead	15	NS	10	**2.4**	**2.4**	**6.8**	**22**	**7.5**

Table 3
Summary of Analytical Results for Surface Water Samples
New Bedford High School Stockpile Area
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:			SW-A-1		SW-B-1	SW-C-1	SW-D-1
		Sample Date:			5/6/2011	5/6/2011	5/6/2011	5/6/2011	5/6/2011
		GW-1	GW-2	GW-3		Field Dup			
	Mercury	2	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	100	NS	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Selenium	50	NS	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Silver	100	NS	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Thallium	2	NS	3,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Vanadium	30	NS	4,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Zinc	5,000	NS	900	**26**	**26**	**19**	**48**	**96**
Metals, dissolved									
(ug/L)	Antimony	6	NS	8,000	**2.7**	**2.6**	1.0 U	**1.3**	1.0 U
	Arsenic	10	NS	900	0.40 U	0.40 U	0.40 U	**1.4**	0.40 U
	Barium	2,000	NS	50,000	**16**	**15**	**120**	**46**	**31**
	Beryllium	4	NS	200	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
	Cadmium	5	NS	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Chromium	100	NS	300	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Lead	15	NS	10	**1.3**	**1.4**	**5.2**	**8.7**	**3.1**
	Mercury	2	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	100	NS	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Selenium	50	NS	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Silver	100	NS	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Thallium	2	NS	3,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Vanadium	30	NS	4,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Zinc	5,000	NS	900	**26**	**27**	**19**	**43**	**96**

Notes:

ug/L - micrograms per liter.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

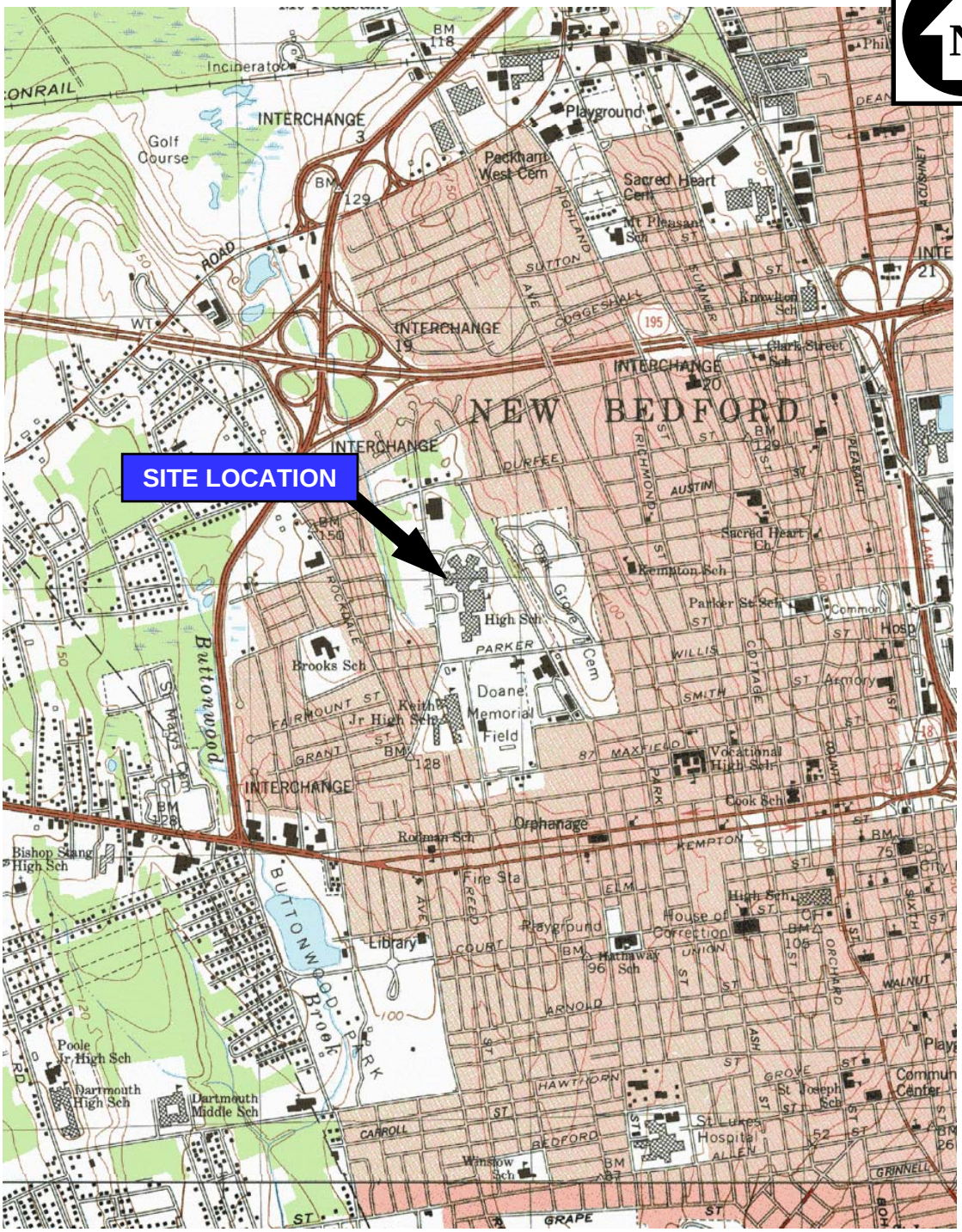
Values in **Bold** indicate the compound was detected.

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

PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

FIGURES



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' X 15' USGS TOPOGRAPHIC QUADRANGLES: NEW BEDFORD NORTH, MA, 1979; NEW BEDFORD SOUTH, MA 1977

0 1000 2000 3000

scale in feet

QUADRANGLE LOCATION

T:\E_CAD\115058\TOPO NBHS.ppt

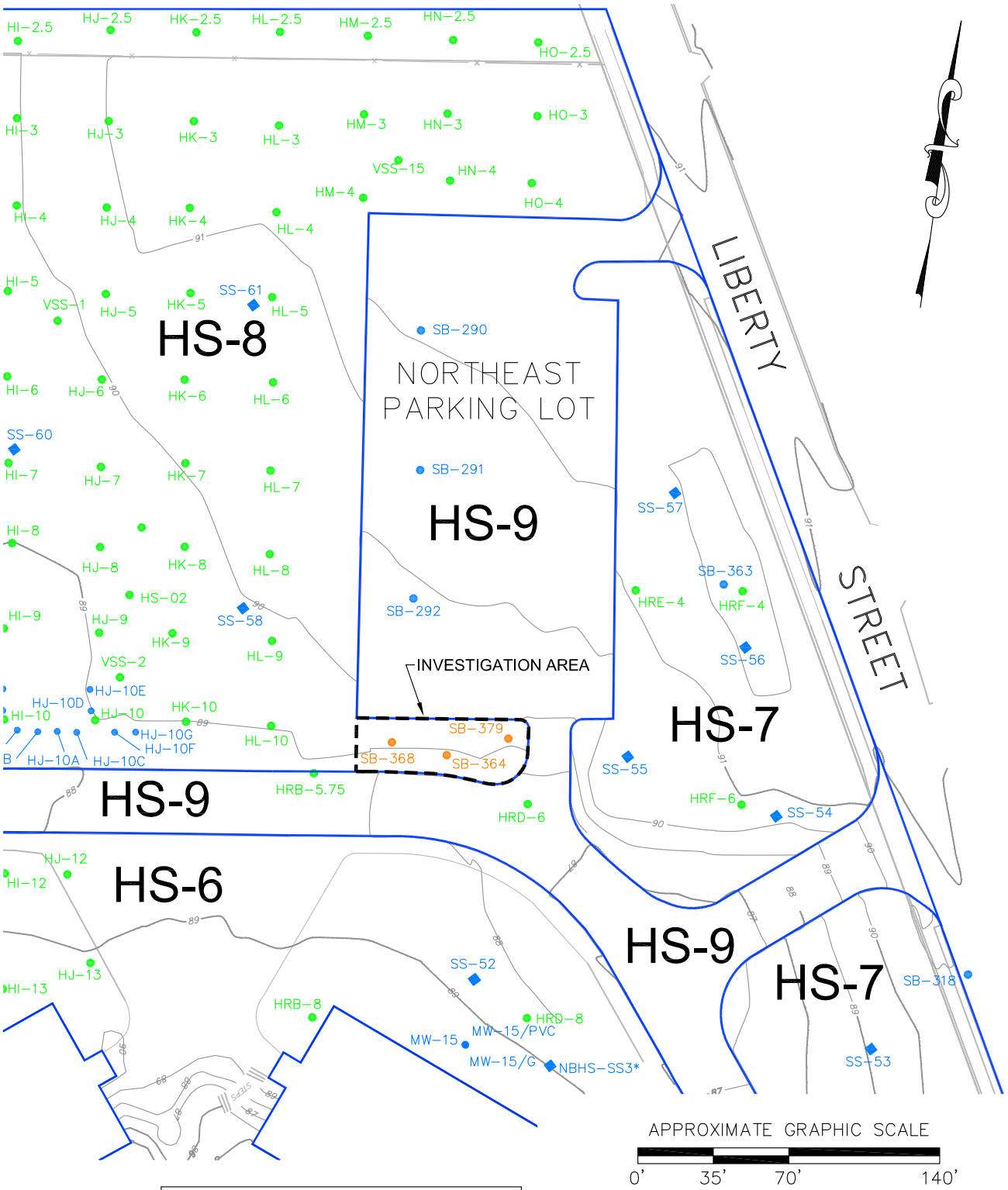
NEW BEDFORD HIGH SCHOOL
NEW BEDFORD, MASSACHUSETTS

SITE LOCATION MAP

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

Drawn: HWB	SCALE: AS SHOWN
Checked: DS	Date: OCT 2008

FIGURE 1



LEGEND:

- TRC SAMPLE LOCATIONS (JULY 15, 2011)
- TRC SAMPLE LOCATIONS
- VHB/BETA SAMPLE LOCATIONS
- HS-9 EXPOSURE POINT AREA/DESIGNATION

NOTES:
1. MAP PREPARED BASED ON DRAWINGS AND SURVEY DATA PROVIDED BY LAND PLANNING, INC. OF HANSON, MASSACHUSETTS.
2. ALL TRC SAMPLING LOCATIONS SURVEYED BY LAND PLANNING, INC. OF HANSON, MASSACHUSETTS.
3. BETA SAMPLE LOCATIONS ARE APPROXIMATE AND BASED ON THE FIGURE PROVIDED IN THE JUNE 9, 2006 "SUMMARY OF ANALYTICAL DATA, NEW BEDFORD HIGH SCHOOL, NEW BEDFORD, MASSACHUSETTS" BY BETA GROUP, INC. OF NORWOOD, MASSACHUSETTS.

NEW BEDFORD HIGH SCHOOL
NEW BEDFORD, MASSACHUSETTS

SUPPLEMENTAL HS-8 INVESTIGATION
SOIL BORING LOCATIONS

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

FIGURE 2

DRAWN BY: HWB
CHECKED BY: JBS
DATE: JULY 2011

FILE: T:\E_CAD\115058\NBHS SUPP HS-8 INVEST.dwg

APPENDIX A

MassDEP Conditional Approval Letter

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

April 15, 2011

Scott Alfonse, Director
Office of Environmental Stewardship
City of New Bedford – City Hall
133 William Street
New Bedford, Massachusetts 02740

RE: **NEW BEDFORD**
Release Tracking Number: 4-0015685
Parker Street Waste Site
New Bedford High School
CONDITIONAL APPROVAL TO CONDUCT A RELEASE ABATEMENT MEASURE

Dear Mr. Alfonse:

On April 6, 2011, the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup (MassDEP), received a Release Abatement Measure Plan (the RAM Plan) for the Parker Street Waste Site (Site), Release Tracking Number 4-0015685. The RAM Plan was submitted in accordance with 310 CMR 40.0000, the Massachusetts Contingency Plan (the MCP), and was prepared on behalf of the City of New Bedford (the City) by TRC Companies, Inc. (TRC). The RAM Plan proposes the following response actions on the New Bedford High School (NBHS) Campus:

- Excavation of approximately 4,860 cubic yards of impacted soil from the top three feet in landscaped areas of the NBHS Campus;
- Excavation and grading to support the expansion of paved areas;
- On-Site crushing of asphalt and concrete materials generated from the removal of existing surfaces and reuse of the crushed material as construction material;
- Transportation of approximately 2,095 cubic yards of excavated soil to the City of New Bedford Transfer Station located at 1103 Shawmut Avenue for temporary stockpiling;
- Temporary storage of the excavated soil either in a stockpile placed on a minimum of 6-mil polyethylene or in lined and covered roll off containers. Stockpiles will be covered at the end of each work day with a minimum 6-mil polyethylene. The stockpile area will be secured by a temporary fence;
- Transportation and off-Site disposal of the excavated soil at appropriately licensed facilities;

- Excavation areas will be backfilled with documented suitable fill material and topsoil, and then seeded.

- Air monitoring and dust suppression measures will be implemented whenever potentially impacted soils will be disturbed or moved, as described in the RAM Plan.

MassDEP acknowledges that the City posted public notices of the availability of a draft version of the RAM Plan and held a public comment period on the Draft RAM Plan from February 11, 2011 through March 12, 2011. In addition, the City hosted a Public Involvement Plan (PIP) meeting on March 2, 2011, in part, to present the RAM Plan details and to solicit comments from the public on the RAM Plan. The City prepared and distributed a summary of comments received and responses to the comments. On April 5, 2011, the City posted notice that the response summary document was prepared and available for public viewing, along with the RAM Plan on the City's website at: http://www.newbedford-ma.gov/McCoy/sitemap/nbhs.html under the section titled "Campus Soil Removals."

Pursuant to 310 CMR 40.0443(2), MassDEP hereby provides conditional approval to the City to implement the RAM as detailed in the above referenced submittals, and in accordance with the conditions described herein.

1. The City, or its contractor, shall provide MassDEP a minimum of seventy-two hours notice prior to commencing field work associated with the RAM Plan. Because the work proposed is anticipated to occur periodically over an extended duration from April 2011 through late August/September 2011, this notice is to be provided to MassDEP each time the City, and/or its contractors, mobilize to the NBHS Campus to conduct work associated with the RAM Plan. When providing such notice, please provide the name and contact cellular phone number of the person responsible for project management and oversight at the Site. MassDEP acknowledges that it has received the notice required by this condition for the work scheduled to occur between April 16, 2011 and April 23, 2011.

2. Soils should be removed from the NBHS Campus on the same day that they are excavated. As allowed by 310 CMR 40.0034(4), and as described in the RAM Plan, soil can be temporarily stored at the City-owned transfer station on Shawmut Avenue provided the following occurs:

   a) The soil is stored/stockpiled at the temporary location and covered in a manner that will ensure that rainwater or other precipitation does not infiltrate the stockpile/storage container; and,

   b) The storage area is secured and locked at the end of each work day.

3. As described in the RAM Plan, each excavation area is to be backfilled on the same day that it is excavated. Should conditions arise that require leaving any excavation are open (or partially backfilled) at the end of the work day, the excavation should be both covered with steel plates and a secured with a temporary chain link fence (as described in Section 4.2.1) to prevent unauthorized access to the excavation, or exposure to impacted soils.

4. As presented in Section 5.3 of the RAM Plan, some groundwater dewatering will be required related to the installation of storm water utilities to accommodate additional runoff from increasing paved surfaces at the northern end of the NBHS Campus, and will be addressed in a separate Utility Related Abatement Measure (URAM) Plan. Please note that, pursuant to 310 CMR 40.0461(3),

URAMs are not allowed to be conducted at sites where a "2 hour" or a "72 hour" release or threat of release has been reported until such time as an Immediate Response Action (IRA) Completion Statement has been submitted to MassDEP. On January 29, 2010, MassDEP was notified of a 72 hour release/threat of release related to the New Bedford High School property. MassDEP assigned RTN 4-22409 to that release/threat of release. Since that time, the City has been conducting IRAs to address that release/threat of release. To date, an IRA Completion Statement has not been submitted to MassDEP for RTN 4-22409, which has been linked to RTN 4-125685. Therefore, a URAM should not be conducted on the NBHS Campus until an IRA Completion Statement is submitted for RTN 4-22409. However the proposed work may be addressed utilizing a RAM Plan Modification.

A RAM Plan modification should be submitted to MassDEP for review and approval prior to implementing the activities associated with the areas where pavement will be increased and/or for the installation of the storm water utilities. The RAM Plan Modification should include, but not be limited to, the following:

a) Final design drawings for the increased paved area, as referenced in Section 4.2.8 of the RAM Plan;

b) A copy of the On-Site Rubble Crushing Notification Form, referenced in Section 4.2.7 of the RAM Plan;

c) A copy of both the Stormwater Pollution Prevention Plan (SWPP) and the Request for Determination, referenced in Section 4.2.8 of the RAM Plan;

d) Copies of any determinations received by the City as a result of the submittals listed in (a)-(c).

5. Pursuant to 310 CMR 40.0443(3) the RAM activities shall be conducted as described in the RAM Plan, and as approved herein. Any proposed modifications to the RAM Plan must be submitted in writing to MassDEP for review and approval prior to implementation.

Please be advised that, pursuant to 310 CMR 40.0445(1), a RAM Status Report must be submitted to MassDEP within one hundred and twenty (120) days from the date of MassDEP's receipt of the RAM Plan, and every six (6) months thereafter until a RAM Completion Report, prepared in full accordance with 310 CMR 40.0446, is submitted.

All inquiries regarding this matter should be directed to Molly Cote at the letterhead address or by calling (508) 946-2792. All future communication regarding this matter must reference Release Tracking Number: **4-15685.**

Sincerely,

Leonard J. Pinaud, Chief
State & Federal Site Management Section
Bureau of Waste Site Cleanup

P/MC/nm

P:\Documents\SITES\4-15685 NEW BEDFORD\4-0015685.RAM.APWRIT.04-15-2011
W:\Document Archive\4-0015685.New Bedford.RAM Approval.4-15-2011

ec: MassDEP-SERO-Data Entry

David Johnston, Acting Regional Director

Millie Garcia-Serrano, Deputy Regional Director

Scott W. Lang, Mayor - City of New Bedford

City of New Bedford - Health Department

Eddie Johnson, President – C.L.E.A.N.

Kim Tisa, USEPA Region 1

David Sullivan, LSP - TRC

APPENDIX B

Dust Monitoring Data and Field Forms
(Included on CD)

APPENDIX C

Photograph Log

Photo 1 – Preparation of Transfer Station stockpile area in advance of work (April 15, 2011).

Photo 2 – DustTrak units set up to monitor fugitive dust levels (April 16, 2011).

Photo 3 – Trucks lined with polyethylene sheeting while transporting soil to the Transfer Station (April 16, 2011).

Photo 4 – Excavation SS-36 completed to 3-feet below ground surface (April 16, 2011).

Photo 5 – Groundwater within SS-36 excavation (April 16, 2011).

Photo 6 – Cleaning bulk soil from tires of truck before leaving the work zone (April 17, 2011).

Photo 7 – Using Air Knife to excavate around utilities (April 17, 2011).

Photo 8 –Groundwater in SB-308 excavation. Dewatered before backfilling (April 17, 2011).

Photo 9 – Dewatering trap consisting of hay bales and silt fence to collect silt from water pumped from SB-308 (April 17, 2011)

Photo 10 – Street sweeper collection (April 17, 2011).

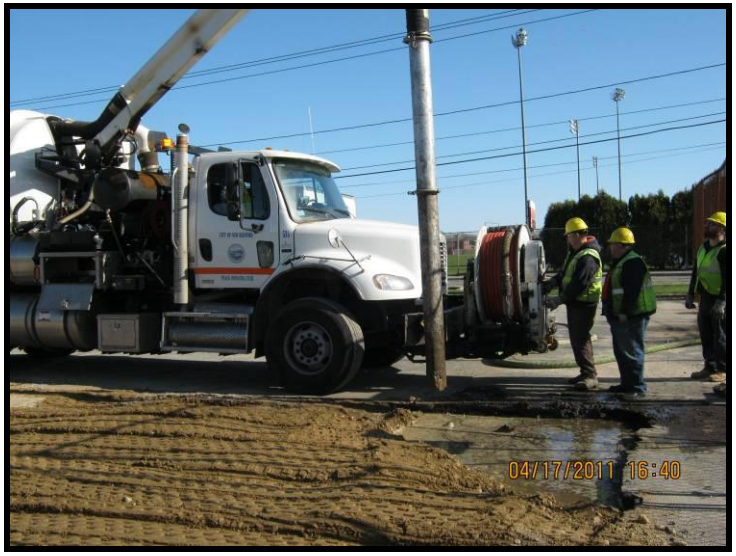


Photo 11 – Vacuum excavation of SB-308 to complete backfilling activities (April 17, 2011).

Photo 12 – Vacuum removal of material from trap used for dewatering (April 17, 2011).

Photo 13 – Backfilling SB-270 in approximately 12-inch lifts (April 17, 2011).

Photo 14 – Completed backfilling of SB-308 (April 17, 2011).

Photo 15 – HF-14 excavation exhibiting topsoil and a tan fine sand (April 18, 2011).

Photo 16 – Sewer cleanout intact in HF-14 (April 18, 2011).

Photo 17 – Compaction between lifts during backfilling (April 18, 2011).

Photo 18 – Street sweeping sidewalk around HF-14 excavation (April 18, 2011).

Photo 19 – Removing at HH-13 excavation area (April 19, 2011).

Photo 20 – Fill material removed from HH-13 excavation (April 19, 2011).

Photo 21 – Backfilling of HH-13 excavation (April 19, 2011).

Photo 22 – Active dust monitoring around HD-19 & HD-20 excavations (April 20, 2011).

Photo 23 – Polyethylene sheeting collecting soil where trucks are being loaded to keep sidewalk & grass clean (April 20, 2011).

Photo 24 – View of HD-19 excavation (April 20, 2011).

Photo 25 – Wires found in HD-20 excavation that were determined to be inactive (April 20, 2011).

Photo 26 – Completed HC-22 excavation (April 20, 2011).

Photo 27 – Polyethylene sheeting over extent of HD-20 excavation toward the south (April 20, 2011).

Photo 28 – Weather station set up and recording in Nemasket Street Lot (April 16-20, 2011).

Photo 29 – Rolling backfilled excavations in preparation for loaming (April 20-21, 2011).

Photo 30 – Polyethylene sheeting for base of stockpiles.

Photo 31- Segregated tree stumps.

Photo 32– Reworking stockpiles to ensure efficient use of stockpile area.

Photo 33- Stockpiles securely covered.

Photo 34 – Excavation activities at HA-19 location (May 14, 2011).

Photo 35 – Completed HA-19 excavation (May 15, 2011).

Photo 36 – Stockpile surrounded by hay booms (May 15, 2011).

Photo 37 – SS-32 excavation (June 20, 2011).

Photo 38 – HJ-42 excavation (June 27, 2011).

Photo 39 – HE-44 excavation (June 27, 2011).

Photo 40 – HB-39 excavation (June 27, 2011).

Photo 41 – HB-40 excavation (July 5, 2011).

Photo 42 – Tree roots intact inside HF-40 excavation (July 6, 2011).

Photo 43 – Air knifing through roots at HF-43 location (July 7, 2011).

Photo 44 – HF-43 excavation (July 8, 2011)/

Photo 45 – Portion of HB-23 complete with polyethylene boundary pending further excavation.

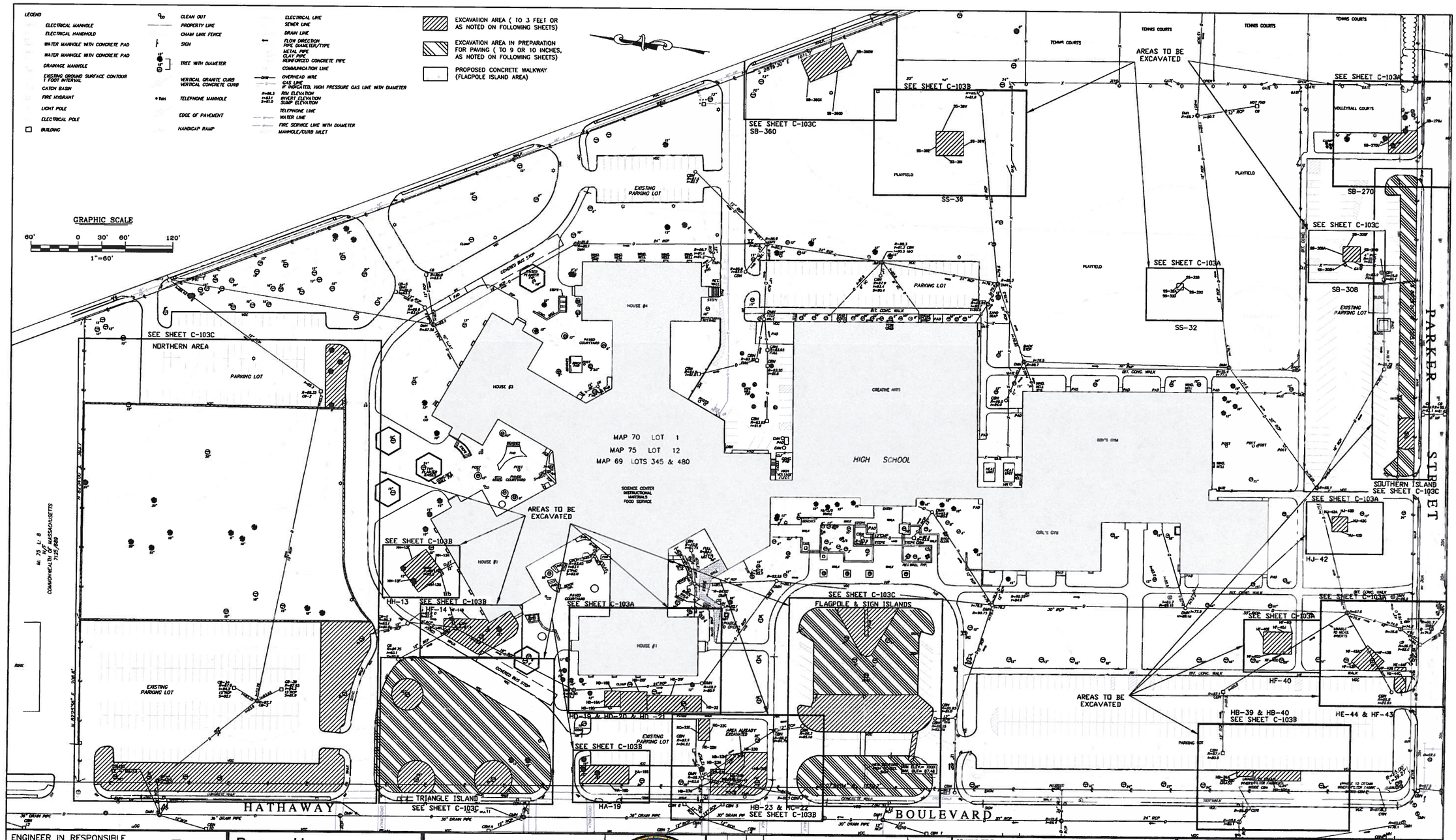
Photo 46 – Portion of HB-23 excavation (July 12, 2011).

Photo 47 – Remainder of HB-23 excavation (July 13, 2011).

Photo 48 – HB-23 excavation complete with tree remaining (July 13, 2011).

APPENDIX D

Soil Excavation Overview



ENGINEER IN RESPONSIBLE CHARGE OF THE WORK SHOWN ON THIS DRAWING

DATE: _____ SIGNATURE

MA PROFESSIONAL ENGINEER:

LIC. # [illegible]

Prepared by:

TRC

Prepared for:

The City of New Bedford
Massachusetts

REV	DATE	BY	DESCRIPTION
1	6-30-11	D.P.	RAM MODIFICATION SUBMITTAL
0	4-08-11	A.H.	60% DRAFT SUBMITTAL

D.T. D.P. D.T. A.H.

DESIGN SUPERVISOR

PROJECT ENGINEER

DRAWING TITLE: SOIL EXCAVATION OVERVIEW

DESIGN	DRAWN BY	CHECKED BY	PROJECT ENGINEER
D.T.	D.P.	D.T.	D.P.
	START DATE: FEB. 2011	SUPERVISOR: D.T.	

PROJECT TITLE: RAM MODIFICATION SUBMITTAL NBHS EXTERIOR REMEDY

SCALE: 1" = 60'

PREPARED FOR: City of New Bedford
133 WILLIAM STREET NEW BEDFORD, MASSACHUSETTS 02740

DRAWING NO. C-103 1

APPENDIX E

Bill of Lading Documents

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number: 4 - 15685

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

1. Release Name/Location Aid: PARKER STREET WASTE SITE
2. Street Address: 230 HATHAWAY BLVD
3. City/Town: NEW BEDFORD 4. Zip Code: 027400000
5. ☐ Check her if a Tier Classification Submittal has been provided to DEP for this disposal site:
   ☐ a. Tier 1A ☐ b. Tier 1B ☐ b. Tier 1C ☐ d. Tier II
6. If applicable provide the Permit Number: _____

B. THIS FORM IS BEING USED TO: (check one: B1-B4):

☑ 1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility. Response Actions associated with this BOL (check all that apply):

- ☐ a. Immediate Response Action (IRA)
- ☑ b. Release Abatement Measure (RAM)
- ☐ c. Downgradient Property Status (DPS)
- ☐ d. Utility Release Abatement Measure (URAM)
- ☐ e. Comprehensive Response Actions
- ☐ f.. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034 6); can't be submitted via eDEP)
- ☐ g. Other

☐ 2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):

☐ 3. Submit an Attestation of Completion of **Shipment to a Receiving Facility** (Sections C, F and J are not required):

☐ 4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void.** (Sections C, D, E, and F are not required)

5. Date Bill of Lading submitted to the Department: _____ (mm/dd/yyyy) b. eDEP Transaction ID:

6. Period of Generation Associated with this Bill of Lading: 4/16/2011 (mm/dd/yyyy) to 4/22/2011 (mm/dd/yyyy)

(All sections of this transmittal form must be filled out unless otherwise noted)
The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

1. Contaminated Media /Debris (check all that apply):

☑ a. Soil ☐ b. Groundwater ☐ c. Surface Water ☐ d. Sediment ☐ e. Vegetation or Organic Debris
☐ f. Demolition/Construction Waste ☐ g. Inorganic Absorbent Materials ☑ h. Other: HISTORIC FILL

2. Uncontainerized Waste (check all that apply):

☐ a. Inorganic Absorbent Materials ☐ b. Other:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40.0030)

BWSC112

Release Tracking Number
4 - 15685

C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

☐ a. Tank Bottoms/Sludges ☐ b. Containers ☐ c. Drums ☐ d. Engineered Impoundments

☐ e. Other:

4. Estimated Quantity: 2453 ☐ Tons ☑ Cu. Yds. ☐ Gallons

5. Contaminant Source (check one):

☐ a. Transportation Accident ☐ b. Underground Storage Tank ☐ c. Brownfields Redevelopment

☑ d. Other: HISTORIC FILL ACTIVITIES

6. Type of Contaminant (check all that apply):

☐ a. Gasoline ☐ b. Diesel Fuel ☐ c. #2 Fuel Oil ☐ d. #4 Fuel Oil ☐ e. #6 Fuel Oil ☐ f. Jet Fuel

☐ g. Waste Oil ☐ h. Kerosene ☐ i. Chlorinated Solvents ☑ j. Urban Fill ☐ k. Other:

7. Constituents of Concern (check all that apply):

☑ a. As ☑ b. Cd ☑ c. Cr ☑ d. Pb ☑ e. Hg ☐ f. EPH/TPH ☐ g. VPH

☑ h. PCBs ☐ i. VOCs ☑ j. SVOCs ☐ k. Other:

8. If applicable, check the box for the Reportable Concentration Category of the site:

☑ a. RCS-1 ☐ b. RCS-2 ☐ c. RCGW-1 ☐ d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

☐ a. Site History Information ☐ b. Sampling Analytical Methods and Procedures ☐ c. Laboratory Data

☐ d. Field Screening Data ☑ e. Characterization Documentation previously submitted to the Department

i. Date submitted: 4/6/2011 (mm/dd/yyyy) ii. Type of Documentation: RAM PLAN

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: CITY OF NEW BEDFORD - DEPARTMENT OF PUBLIC INFRASTRUCTURE

2. Contact First Name: EUZEBIO 3. Last Name: ARRUDA

4. Street: 1105 SHAWMUT AVENUE 5. Title: SUPERINTENDENT OF HIGHWAYS

6. City/Town: NEW BEDFORD 7. State: MA 8. Zip Code: 027460000

9. Telephone: 508-991-6395 10. Ext: 11. Fax: 5089916152

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number
4 - 15685

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: SHAWMUT AVENUE TRANSFER STATION
2. Contact First Name: LAWRENCE 3. Last Name: WARDEN
4. Street: 1103 SHAWMUT AVENUE 5. Title: COMMISSIONER, DEPT OF PUB. FAC
6. City/Town: NEW BEDFORD 7. State: MA 8. Zip Code: 027460000
9. Telephone: 5089916156 10. Ext: 11. Fax: 5089613133
12. Type of Facility: (Check one)
    a. Temporary Storage i. Period of Temporary Storage: 4/16/2011 (mm/dd/yyyy) to 7/21/2011 (mm/dd/yyyy)
    ii. Reason for Temporary Storage: SOIL SEGREGATION AND DISPOSAL CHARACTERIZATION
    ☐ b. Asphalt Batch/Hot Mix ☐ c. Landfill/Disposal ☐ d. Landfill/Structural Fill ☐ e. Landfill/Daily Cover
    ☐ f. Asphalt Batch/Cold Mix ☐ g. Thermal Processing ☐ h. Incinerator ☐ i. Other:
13. Division of Hazardous Waste/Class A Permit Number:
14. Division of Solid Waste Permit Number:
15. EPA Identification Number:

F. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

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

1. LSP #: 1488
2. First Name: DAVID M 3. Last Name: SULLIVAN
4. Telephone: 9786563565 5. Ext.
6. FAX:
7. Signature: DAVID M SULLIVAN
8. Date: 4/15/2011 (mm/dd/yyyy)
9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number
4 - 15685

G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: ☐ a. change in contact name ☐ b. Change of address ☐ c. change in person undertaking response actions

2. Name of Organization:

3. Contact First Name: SCOTT 4. Last Name: ALFONSE

5. Street: 133 WILLIAM STREET 6. Title: DIRECTOR, ENVIRONMENTAL STEW

7. City/Town: NEW BEDFORD 8. State: MA 9. Zip Code: 027400000

10. Telephone: 5089791487 11. Ext: 12. Fax:

H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING:

☐ Check here to change relationship

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

☐ e. Other RP or PRP Specify:

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

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

☐ 4. Any Other person Undertaking Response Actions: Specify Relationship:

I. REQUIRED ATTACHMENTS AND SUBMITTALS :

☑ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof.

☐ 2. Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

☑ 3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING :

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

2. By: Scott Alfonse 3. Title: DIRECTOR, ENVIRONMENTAL STEWA

4. For SCOTT ALFONSE (Name of person or entity recorded in Section H) 5. Date: 4/15/2011 (mm/dd/yyyy)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number
4 - 15685

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

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

7. Street:

8. City/Town: 9. State: 10. Zip Code:

11. Telephone: 12. Ext: 13. Fax:

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

Date Stamp (MassDEP USE ONLY):

Received by DEP on

4/16/2011 7:32:10 AM

TRC

Remediation Waste Characterization
Parker Street Waste Site
New Bedford High School RAM Spot Excavation Activities
230 Hathaway Boulevard
New Bedford, Massachusetts
RTN 4-15685

This summary of Site history and has been prepared to provide remediation waste characterization information regarding soil being removed from the New Bedford High School (NBHS) property at 230 Hathaway Boulevard, New Bedford, Massachusetts (the "Site"). The Site is tracked by the Massachusetts Department of Environmental Protection (MassDEP) under Release Tracking Number (RTN) 4-15685, which is the tracking number assigned to the Parker Street Waste Site.

The soils being transported under this Bill of Lading were generated from spot excavations at the NBHS property aimed at reducing human health risk associated with contamination of surface soils. The soils are being temporarily stored at the Shawmut Avenue Transfer Station at 1103 Shawmut Avenue, New Bedford. Here they where they will be segregated into stockpiles based on estimated contaminant concentrations and characterized for off-site disposal at the appropriate facilities. Further details regarding the excavation and transport of these soils can be found in TRC's *Release Abatement Measure Plan: Soil Excavation and Removal, New Bedford High School, New Bedford Massachusetts, Release Tracking Number 4-15685* submitted electronically to MassDEP on April 6, 2011. This document can be viewed in its entirety on MassDEP's Waste Site Release File Viewer under RTN 4-15685 as Transaction ID 377269.

The NBHS property is part of the Parker Street Waste Site. A detailed Site history of the NBHS property can be found in TRC's *Phase II Comprehensive Site Assessment, New Bedford High School Campus at the Parker Street Waste Site, New Bedford, Massachusetts, Release Tracking Number 4-15685* submitted electronically to MassDEP on April 6, 2011. Also contained within this document are summaries of soil laboratory data (Tables 4-1 through 4-13) and laboratory analytical reports (Appendix E) detailing the analyses undertaken to characterize the soil thus far. This document can be viewed in its entirety on MassDEP's Waste Site Release File Viewer under RTN 4-15685 as Transaction ID 377263.

A more detailed Remediation Waste Characterization package will be prepared following waste characterization analyses of displaced soils to determine off-site disposal parameters. This will be included with the Bill of Lading(s) associated with transport of soils from the temporary storage location to the off-site disposal facility(s).

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

April 15, 2011

Scott Alfonse, Director
Office of Environmental Stewardship
City of New Bedford – City Hall
133 William Street
New Bedford, Massachusetts 02740

RE: **NEW BEDFORD**
Release Tracking Number: 4-0015685
Parker Street Waste Site
New Bedford High School
CONDITIONAL APPROVAL TO CONDUCT A RELEASE ABATEMENT MEASURE

Dear Mr. Alfonse:

On April 6, 2011, the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup (MassDEP), received a Release Abatement Measure Plan (the RAM Plan) for the Parker Street Waste Site (Site), Release Tracking Number 4-0015685. The RAM Plan was submitted in accordance with 310 CMR 40.0000, the Massachusetts Contingency Plan (the MCP), and was prepared on behalf of the City of New Bedford (the City) by TRC Companies, Inc. (TRC). The RAM Plan proposes the following response actions on the New Bedford High School (NBHS) Campus:

- Excavation of approximately 4,860 cubic yards of impacted soil from the top three feet in landscaped areas of the NBHS Campus;
- Excavation and grading to support the expansion of paved areas;
- On-Site crushing of asphalt and concrete materials generated from the removal of existing surfaces and reuse of the crushed material as construction material;
- Transportation of approximately 2,095 cubic yards of excavated soil to the City of New Bedford Transfer Station located at 1103 Shawmut Avenue for temporary stockpiling;
- Temporary storage of the excavated soil either in a stockpile placed on a minimum of 6-mil polyethylene or in lined and covered roll off containers. Stockpiles will be covered at the end of each work day with a minimum 6-mil polyethylene. The stockpile area will be secured by a temporary fence;
- Transportation and off-Site disposal of the excavated soil at appropriately licensed facilities;

- Excavation areas will be backfilled with documented suitable fill material and topsoil, and then seeded.

- Air monitoring and dust suppression measures will be implemented whenever potentially impacted soils will be disturbed or moved, as described in the RAM Plan.

MassDEP acknowledges that the City posted public notices of the availability of a draft version of the RAM Plan and held a public comment period on the Draft RAM Plan from February 11, 2011 through March 12, 2011. In addition, the City hosted a Public Involvement Plan (PIP) meeting on March 2, 2011, in part, to present the RAM Plan details and to solicit comments from the public on the RAM Plan. The City prepared and distributed a summary of comments received and responses to the comments. On April 5, 2011, the City posted notice that the response summary document was prepared and available for public viewing, along with the RAM Plan on the City's website at: http://www.newbedford-ma.gov/McCoy/sitemap/nbhs.html under the section titled "Campus Soil Removals."

Pursuant to 310 CMR 40.0443(2), MassDEP hereby provides conditional approval to the City to implement the RAM as detailed in the above referenced submittals, and in accordance with the conditions described herein.

1. The City, or its contractor, shall provide MassDEP a minimum of seventy-two hours notice prior to commencing field work associated with the RAM Plan. Because the work proposed is anticipated to occur periodically over an extended duration from April 2011 through late August/September 2011, this notice is to be provided to MassDEP each time the City, and/or its contractors, mobilize to the NBHS Campus to conduct work associated with the RAM Plan. When providing such notice, please provide the name and contact cellular phone number of the person responsible for project management and oversight at the Site. MassDEP acknowledges that it has received the notice required by this condition for the work scheduled to occur between April 16, 2011 and April 23, 2011.

2. Soils should be removed from the NBHS Campus on the same day that they are excavated. As allowed by 310 CMR 40.0034(4), and as described in the RAM Plan, soil can be temporarily stored at the City-owned transfer station on Shawmut Avenue provided the following occurs:

   a) The soil is stored/stockpiled at the temporary location and covered in a manner that will ensure that rainwater or other precipitation does not infiltrate the stockpile/storage container; and,

   b) The storage area is secured and locked at the end of each work day.

3. As described in the RAM Plan, each excavation area is to be backfilled on the same day that it is excavated. Should conditions arise that require leaving any excavation are open (or partially backfilled) at the end of the work day, the excavation should be both covered with steel plates and a secured with a temporary chain link fence (as described in Section 4.2.1) to prevent unauthorized access to the excavation, or exposure to impacted soils.

4. As presented in Section 5.3 of the RAM Plan, some groundwater dewatering will be required related to the installation of storm water utilities to accommodate additional runoff from increasing paved surfaces at the northern end of the NBHS Campus, and will be addressed in a separate Utility Related Abatement Measure (URAM) Plan. Please note that, pursuant to 310 CMR 40.0461(3),

URAMs are not allowed to be conducted at sites where a "2 hour" or a "72 hour" release or threat of release has been reported until such time as an Immediate Response Action (IRA) Completion Statement has been submitted to MassDEP. On January 29, 2010, MassDEP was notified of a 72 hour release/threat of release related to the New Bedford High School property. MassDEP assigned RTN 4-22409 to that release/threat of release. Since that time, the City has been conducting IRAs to address that release/threat of release. To date, an IRA Completion Statement has not been submitted to MassDEP for RTN 4-22409, which has been linked to RTN 4-125685. Therefore, a URAM should not be conducted on the NBHS Campus until an IRA Completion Statement is submitted for RTN 4-22409. However the proposed work may be addressed utilizing a RAM Plan Modification.

A RAM Plan modification should be submitted to MassDEP for review and approval prior to implementing the activities associated with the areas where pavement will be increased and/or for the installation of the storm water utilities. The RAM Plan Modification should include, but not be limited to, the following:

a) Final design drawings for the increased paved area, as referenced in Section 4.2.8 of the RAM Plan;

b) A copy of the On-Site Rubble Crushing Notification Form, referenced in Section 4.2.7 of the RAM Plan;

c) A copy of both the Stormwater Pollution Prevention Plan (SWPP) and the Request for Determination, referenced in Section 4.2.8 of the RAM Plan;

d) Copies of any determinations received by the City as a result of the submittals listed in (a)-(c).

5. Pursuant to 310 CMR 40.0443(3) the RAM activities shall be conducted as described in the RAM Plan, and as approved herein. Any proposed modifications to the RAM Plan must be submitted in writing to MassDEP for review and approval prior to implementation.

Please be advised that, pursuant to 310 CMR 40.0445(1), a RAM Status Report must be submitted to MassDEP within one hundred and twenty (120) days from the date of MassDEP's receipt of the RAM Plan, and every six (6) months thereafter until a RAM Completion Report, prepared in full accordance with 310 CMR 40.0446, is submitted.

All inquiries regarding this matter should be directed to Molly Cote at the letterhead address or by calling (508) 946-2792. All future communication regarding this matter must reference Release Tracking Number: **4-15685.**

Sincerely,

Leonard J. Pinaud, Chief
State & Federal Site Management Section
Bureau of Waste Site Cleanup

P/MC/nm

P:\Documents\SITES\4-15685 NEW BEDFORD\4-0015685.RAM.APWRIT.04-15-2011
W:\Document Archive\4-0015685.New Bedford.RAM Approval.4-15-2011

ec: MassDEP-SERO-Data Entry

David Johnston, Acting Regional Director

Millie Garcia-Serrano, Deputy Regional Director

Scott W. Lang, Mayor - City of New Bedford

City of New Bedford - Health Department

Eddie Johnson, President – C.L.E.A.N.

Kim Tisa, USEPA Region 1

David Sullivan, LSP - TRC

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number
4 - 15685

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

1. Release Name/Location Aid: PARKER STREET WASTE SITE
2. Street Address: 230 HATHAWAY BLVD
3. City/Town: NEW BEDFORD 4. Zip Code: 02740-0000
5. ☐ Check her if a Tier Classification Submittal has been provided to DEP for this disposal site:
   ☐ a. Tier 1A ☐ b. Tier 1B ☐ b. Tier 1C ☐ d. Tier II
6. If applicable provide the Permit Number:

B. THIS FORM IS BEING USED TO: (check one: B1-B4):

☐ 1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility. Response Actions associated with this BOL (check all that apply):

- ☐ a. Immediate Response Action (IRA)
- ☐ b. Release Abatement Measure (RAM)
- ☐ c. Downgradient Property Status (DPS)
- ☐ d. Utility Release Abatement Measure (URAM)
- ☐ e. Comprehensive Response Actions
- ☐ f.. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
- ☐ g. Other

☑ 2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):

☐ 3. Submit an Attestation of Completion of **Shipment to a Receiving Facility** (Sections C, F and J are not required):

☐ 4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void.** (Sections C, D, E, and F are not required)

5. Date Bill of Lading submitted to the Department: 4/16/2011 7:32:10 (mm/dd/yyyy) b. eDEP Transaction ID: 378369

6. Period of Generation Associated with this Bill of Lading 4/16/2011 (mm/dd/yyyy) to 4/22/2011 (mm/dd/yyyy)

(All sections of this transmittal form must be filled out unless otherwise noted)
The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

1. Contaminated Media /Debris (check all that apply):
   ☐ a. Soil ☐ b. Groundwater ☐ c. Surface Water ☐ d. Sediment ☐ e. Vegetation or Organic Debris
   ☐ f. Demolition/Construction Waste ☐ g. Inorganic Absorbent Materials ☐ h. Other:
2. Uncontainerized Waste (check all that apply):
   ☐ a. Inorganic Absorbent Materials ☐ b. Other:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40.0030)

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C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

☐ a. Tank Bottoms/Sludges ☐ b. Containers ☐ c. Drums ☐ d. Engineered Impoundments

☐ e. Other:

4. Estimated Quantity: ☐ Tons ☐ Cu. Yds. ☐ Gallons

5. Contaminant Source (check one):

☐ a. Transportation Accident ☐ b. Underground Storage Tank ☐ c. Brownfields Redevelopment

☐ d. Other:

6. Type of Contaminant (check all that apply):

☐ a. Gasoline ☐ b. Diesel Fuel ☐ c. #2 Fuel Oil ☐ d. #4 Fuel Oil ☐ e. #6 Fuel Oil ☐ f. Jet Fuel

☐ g. Waste Oil ☐ h. Kerosene ☐ i. Chlorinated Solvents ☐ j. Urban Fill ☐ k. Other:

7. Constituents of Concern (check all that apply):

☐ a. As ☐ b. Cd ☐ c. Cr ☐ d. Pb ☐ e. Hg ☐ f. EPH/TPH ☐ g. VPH

☐ h. PCBs ☐ i. VOCs ☐ j. SVOCs ☐ k. Other:

8. If applicable, check the box for the Reportable Concentration Category of the site:

☐ a. RCS-1 ☐ b. RCS-2 ☐ c. RCGW-1 ☐ d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

☐ a. Site History Information ☐ b. Sampling Analytical Methods and Procedures ☐ c. Laboratory Data

☐ d. Field Screening Data ☐ e. Characterization Documentation previously submitted to the Department

i. Date submitted: (mm/dd/yyyy) ii. Type of Documentation:

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: CITY OF NEW BEDFORD - DEPARTMENT OF PUBLIC INFRASTRUCTURE

2. Contact First Name: EUZEBIO 3. Last Name: ARRUDA

4. Street: 1105 SHAWMUT AVENUE 5. Title: SUPERINTENDENT OF HIGHWAYS

6. City/Town: NEW BEDFORD 7. State: MA 8. Zip Code: 02746-0000

9. Telephone: (508) 991-6395 10. Ext: 11. Fax: (508) 991-6152

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

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E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: SHAWMUT AVENUE TRANSFER STATION
2. Contact First Name: LAWRENCE 3. Last Name: WARDEN
4. Street: 1103 SHAWMUT AVENUE 5. Title: COMMISSIONER, DEPT OF PUB. FAC
6. City/Town: NEW BEDFORD 7. State: MA 8. Zip Code: 02746-0000
9. Telephone: (508) 991-6156 10. Ext: 11. Fax: (508) 961-3133
12. Type of Facility: (Check one)
    a. Temporary Storage i. Period of Temporary Storage: 4/16/2011 (mm/dd/yyyy) to 8/31/2011 (mm/dd/yyyy)
    ii. Reason for Temporary Storage: TEMPORARY STORAGE PENDING CHARACTERIZATION AND AS NEEDED STABILIZATION TREATMENT PER APPROVED RAM.
    ☐ b. Asphalt Batch/Hot Mix ☑ c. Landfill/Disposal ☐ d. Landfill/Structural Fill ☑ e. Landfill/Daily Cover
    ☐ f. Asphalt Batch/Cold Mix ☐ g. Thermal Processing ☐ h. Incinerator ☐ i. Other:
13. Division of Hazardous Waste/Class A Permit Number:
14. Division of Solid Waste Permit Number:
15. EPA Identification Number:

F. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

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

1. LSP #:
2. First Name: 3. Last Name:
4. Telephone: 5. Ext.
6. FAX:
7. Signature:
8. Date: (mm/dd/yyyy)
9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

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G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: ☐ a. change in contact name ☐ b. Change of address ☐ c. change in person undertaking response actions
2. Name of Organization:
3. Contact First Name: SCOTT 4. Last Name: ALFONSE
5. Street: 133 WILLIAM STREET 6. Title: DIRECTOR, ENVIRONMENTAL STEW
7. City/Town: NEW BEDFORD 8. State: MA 9. Zip Code: 02740-0000
10. Telephone: (508) 979-1487 11. Ext: 12. Fax:

H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING: ☐ Check here to change relationship

☑ 1. RP or PRP: ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter
☐ e. Other RP or PRP Specify:
☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c.21E, s.2):
☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c.21E, s.5(j))
☐ 4. Any Other person Undertaking Response Actions: Specify Relationship:

I. REQUIRED ATTACHMENTS AND SUBMITTALS :

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof.

☐ 2. Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

☐ 3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING :

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

2. By: _____ 3. Title: _____

4. For: _____ 5. Date: _____
(Name of person or entity recorded in Section H) (mm/dd/yyyy)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number
4 - 15685

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

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

7. Street:

8. City/Town: 9. State: 10. Zip Code:

11. Telephone: 12. Ext: 13. Fax:

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

Date Stamp (MassDEP USE ONLY):

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112A

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number: 4 - 15685

SUMMARY OF SHIPMENT SHEET 1 OF 1

A. SUMMARY OF SHIPMENT (To be filled out by the receiving facility upon receipt of Remediation Waste):

1. Date of Shipment: (mm/dd/yyyy)	2. Date of Receipt: (mm/dd/yyyy)	3. Number of Loads Shipped:	4. Daily Volume Shipped: ☐ yds³ ☑ tons ☐ gals
4/16/2011	4/16/2011	33	428.54
4/17/2011	4/17/2011	18	270.65
4/18/2011	4/18/2011	25	496.91
4/19/2011	4/19/2011	15	284.08
4/20/2011	4/20/2011	16	261.12
5/14/2011	5/14/2011	17	261.22
5/21/2011	5/21/2011	10	164.15
6/20/2011	6/20/2011	1	9.88
6/27/2011	6/27/2011	7	140.04
7/5/2011	7/5/2011	6	103.79
7/6/2011	7/6/2011	7	145.03
7/7/2011	7/7/2011	1	9.45
7/8/2011	7/8/2011	3	47.70
7/11/2011	7/11/2011	6	95.75
7/12/2011	7/12/2011	5	104.60
7/13/2011	7/13/2011	8	178.41
5. Totals Recorded on this Summary of Shipment Sheet:		17	3001

B. ☐ Check here if additional BWSC112A BOL Summary Sheets are needed.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112B

Release Tracking Number
4 - 15685

BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET SIGNATURE PAGE

A. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE:

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

2. By: [signature] 3. Title: NewBedford DPI Project Co.

4. For: SHAWMUT AVENUE TRANSFER STATION / DPF 5. Date: 07/21/11 (mm/dd/yyyy)

6. Date of Final Shipment associated with this Bill of Lading: 7/13/2011 (mm/dd/yyyy)

B. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON CONDUCTING RESPONSE ACTIONS ASSOCIATED WITH THIS BILL OF LADING:

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

2. By: [signature] 3. Title: DIRECTOR, ENVIRONMENTAL STEW

4. For: CITY OF NEW BEDFORD (Name of person or entity recorded in Section G) 5. Date: 7/21/2011 (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in BWSC112 Section H.

7. Street:

8. City/Town: 9. State: 10. Zip Code:

11. Telephone: 12. Ext: 13. Fax:

☐ 14. Check here if attaching optional supporting documentation such as copies of Load Information Summary Sheets

APPENDIX F

Laboratory Data Packages

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

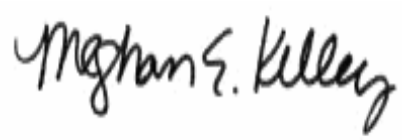
May 13, 2011

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City of New Bedford- Transfer Stat.
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 11E0201

Enclosed are results of analyses for samples received by the laboratory on May 6, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 5/13/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11E0201

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: City of New Bedford- Transfer Stat.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-A-1	11E0201-01	Storm Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8082	
				SW-846 8270C	
SW-A-1D	11E0201-02	Storm Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8082	
				SW-846 8270C	
SW-B-1	11E0201-03	Storm Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8082	
				SW-846 8270C	
SW-D-1	11E0201-04	Storm Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8082	
				SW-846 8270C	
SW-C-1	11E0201-05	Storm Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8082	
				SW-846 8270C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAH compounds were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1 Sampled: 5/6/2011 10:00

Sample ID: 11E0201-01

Sample Matrix: Storm Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 16:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	64.3	30-130		5/10/11 16:44
2-Fluorobiphenyl	61.7	30-130		5/10/11 16:44
Terphenyl-d14	68.2	30-130		5/10/11 16:44

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1 Sampled: 5/6/2011 10:00

Sample ID: 11E0201-01

Sample Matrix: Storm Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	42.8	30-150		5/10/11 10:01
Decachlorobiphenyl [2]	42.5	30-150		5/10/11 10:01
Tetrachloro-m-xylene [1]	89.3	30-150		5/10/11 10:01
Tetrachloro-m-xylene [2]	86.9	30-150		5/10/11 10:01

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1 Sampled: 5/6/2011 10:00

Sample ID: 11E0201-01

Sample Matrix: Storm Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.8	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Barium	16	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Lead	2.4	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:28	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH
Zinc	26	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:39	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1 Sampled: 5/6/2011 10:00

Sample ID: 11E0201-01

Sample Matrix: Storm Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.7	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Barium	16	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Lead	1.3	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:49	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH
Zinc	26	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:07	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1D Sampled: 5/6/2011 10:15

Sample ID: 11E0201-02

Sample Matrix: Storm Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	63.2	30-130		5/10/11 17:17
2-Fluorobiphenyl	58.6	30-130		5/10/11 17:17
Terphenyl-d14	68.1	30-130		5/10/11 17:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1D Sampled: 5/6/2011 10:15

Sample ID: 11E0201-02

Sample Matrix: Storm Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	32.3	30-150		5/10/11 10:20
Decachlorobiphenyl [2]	32.7	30-150		5/10/11 10:20
Tetrachloro-m-xylene [1]	79.6	30-150		5/10/11 10:20
Tetrachloro-m-xylene [2]	78.3	30-150		5/10/11 10:20

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1D Sampled: 5/6/2011 10:15

Sample ID: 11E0201-02

Sample Matrix: Storm Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.8	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Barium	16	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Lead	2.4	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:33	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH
Zinc	26	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:49	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-A-1D Sampled: 5/6/2011 10:15

Sample ID: 11E0201-02

Sample Matrix: Storm Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.6	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Barium	15	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Lead	1.4	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:54	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH
Zinc	27	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:36	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-B-1 Sampled: 5/6/2011 11:00

Sample ID: 11E0201-03

Sample Matrix: Storm Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 17:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	66.4	30-130		5/10/11 17:51
2-Fluorobiphenyl	62.1	30-130		5/10/11 17:51
Terphenyl-d14	69.4	30-130		5/10/11 17:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-B-1 Sampled: 5/6/2011 11:00

Sample ID: 11E0201-03

Sample Matrix: Storm Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:34	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	49.4	30-150		5/10/11 10:34
Decachlorobiphenyl [2]	49.1	30-150		5/10/11 10:34
Tetrachloro-m-xylene [1]	77.5	30-150		5/10/11 10:34
Tetrachloro-m-xylene [2]	76.2	30-150		5/10/11 10:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-B-1 Sampled: 5/6/2011 11:00

Sample ID: 11E0201-03

Sample Matrix: Storm Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Barium	130	50	µg/L	5		SW-846 6020A	5/9/11	5/9/11 15:04	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Lead	6.8	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:35	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH
Zinc	19	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:53	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-B-1 Sampled: 5/6/2011 11:00

Sample ID: 11E0201-03

Sample Matrix: Storm Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Barium	120	50	µg/L	5		SW-846 6020A	5/9/11	5/9/11 15:50	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Lead	5.2	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:56	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH
Zinc	19	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:40	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-D-1 Sampled: 5/6/2011 11:30

Sample ID: 11E0201-04

Sample Matrix: Storm Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:23	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	58.8	30-130		5/10/11 18:23
2-Fluorobiphenyl	57.2	30-130		5/10/11 18:23
Terphenyl-d14	56.6	30-130		5/10/11 18:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-D-1 Sampled: 5/6/2011 11:30

Sample ID: 11E0201-04

Sample Matrix: Storm Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 10:47	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	47.4	30-150		5/10/11 10:47
Decachlorobiphenyl [2]	47.0	30-150		5/10/11 10:47
Tetrachloro-m-xylene [1]	96.3	30-150		5/10/11 10:47
Tetrachloro-m-xylene [2]	93.3	30-150		5/10/11 10:47

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-D-1 Sampled: 5/6/2011 11:30

Sample ID: 11E0201-04

Sample Matrix: Storm Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/10/11 12:37	KSH
Barium	33	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Lead	7.5	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:37	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH
Zinc	96	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 14:56	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-D-1 Sampled: 5/6/2011 11:30

Sample ID: 11E0201-04

Sample Matrix: Storm Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Barium	31	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Lead	3.1	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:58	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH
Zinc	96	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:43	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-C-1 Sampled: 5/6/2011 12:30

Sample ID: 11E0201-05

Sample Matrix: Storm Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	5/9/11	5/10/11 18:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
Nitrobenzene-d5	61.4	30-130		5/10/11 18:57
2-Fluorobiphenyl	56.3	30-130		5/10/11 18:57
Terphenyl-d14	56.2	30-130		5/10/11 18:57

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta | Sample Description: | Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-C-1 | Sampled: 5/6/2011 12:30

Sample ID: 11E0201-05

Sample Matrix: Storm Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082	5/9/11	5/10/11 11:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	54.3	30-150		5/10/11 11:01
Decachlorobiphenyl [2]	53.8	30-150		5/10/11 11:01
Tetrachloro-m-xylene [1]	92.2	30-150		5/10/11 11:01
Tetrachloro-m-xylene [2]	89.2	30-150		5/10/11 11:01

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-C-1 Sampled: 5/6/2011 12:30

Sample ID: 11E0201-05

Sample Matrix: Storm Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.2	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Arsenic	1.4	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Barium	49	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Lead	22	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:38	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH
Zinc	48	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:00	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford- Transfer Sta Sample Description: Work Order: 11E0201

Date Received: 5/6/2011

Field Sample #: SW-C-1 Sampled: 5/6/2011 12:30

Sample ID: 11E0201-05

Sample Matrix: Storm Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.3	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Arsenic	1.4	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Barium	46	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Lead	8.7	1.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/9/11	5/9/11 13:59	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH
Zinc	43	10	µg/L	1		SW-846 6020A	5/9/11	5/9/11 15:46	KSH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-01 [SW-A-1]	B030164	50.0	50.0	05/09/11
11E0201-02 [SW-A-1D]	B030164	50.0	50.0	05/09/11
11E0201-03 [SW-B-1]	B030164	50.0	50.0	05/09/11
11E0201-04 [SW-D-1]	B030164	50.0	50.0	05/09/11
11E0201-05 [SW-C-1]	B030164	50.0	50.0	05/09/11

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-01 [SW-A-1]	B030165	50.0	50.0	05/09/11
11E0201-02 [SW-A-1D]	B030165	50.0	50.0	05/09/11
11E0201-03 [SW-B-1]	B030165	50.0	50.0	05/09/11
11E0201-04 [SW-D-1]	B030165	50.0	50.0	05/09/11
11E0201-05 [SW-C-1]	B030165	50.0	50.0	05/09/11

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-01 [SW-A-1]	B030173	6.00	6.00	05/09/11
11E0201-02 [SW-A-1D]	B030173	6.00	6.00	05/09/11
11E0201-03 [SW-B-1]	B030173	6.00	6.00	05/09/11
11E0201-04 [SW-D-1]	B030173	6.00	6.00	05/09/11
11E0201-05 [SW-C-1]	B030173	6.00	6.00	05/09/11

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-01 [SW-A-1]	B030174	6.00	6.00	05/09/11
11E0201-02 [SW-A-1D]	B030174	6.00	6.00	05/09/11
11E0201-03 [SW-B-1]	B030174	6.00	6.00	05/09/11
11E0201-04 [SW-D-1]	B030174	6.00	6.00	05/09/11
11E0201-05 [SW-C-1]	B030174	6.00	6.00	05/09/11

Prep Method: SW-846 3510C-SW-846 8082

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-01 [SW-A-1]	B030169	1000	10.0	05/09/11
11E0201-02 [SW-A-1D]	B030169	1000	10.0	05/09/11
11E0201-03 [SW-B-1]	B030169	1000	10.0	05/09/11
11E0201-04 [SW-D-1]	B030169	1000	10.0	05/09/11
11E0201-05 [SW-C-1]	B030169	1000	10.0	05/09/11

Prep Method: SW-846 3510C-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-01 [SW-A-1]	B030171	1000	1.00	05/09/11
11E0201-02 [SW-A-1D]	B030171	1000	1.00	05/09/11
11E0201-03 [SW-B-1]	B030171	1000	1.00	05/09/11
11E0201-04 [SW-D-1]	B030171	1000	1.00	05/09/11

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 8270C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11E0201-05 [SW-C-1]	B030171	1000	1.00	05/09/11

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 B030171 - SW-846 3510C										
Blank (B030171-BLK1)				Prepared: 05/09/11 Analyzed: 05/10/11						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Surrogate: Nitrobenzene-d5	*72.2*		µg/L	100		72.2	30-130			
Surrogate: 2-Fluorobiphenyl	*65.8*		µg/L	100		65.8	30-130			
Surrogate: Terphenyl-d14	*74.1*		µg/L	100		74.1	30-130			
LCS (B030171-BS1)				Prepared: 05/09/11 Analyzed: 05/10/11						
Acenaphthene	38.4	5.0	µg/L	50.0		76.8	40-140			
Acenaphthylene	37.5	5.0	µg/L	50.0		75.1	40-140			
Anthracene	41.2	5.0	µg/L	50.0		82.4	40-140			
Benzo(a)anthracene	42.3	5.0	µg/L	50.0		84.7	40-140			
Benzo(a)pyrene	45.8	5.0	µg/L	50.0		91.7	40-140			
Benzo(b)fluoranthene	47.5	5.0	µg/L	50.0		94.9	40-140			
Benzo(g,h,i)perylene	39.2	5.0	µg/L	50.0		78.3	40-140			
Benzo(k)fluoranthene	44.5	5.0	µg/L	50.0		89.0	40-140			
Chrysene	41.2	5.0	µg/L	50.0		82.3	40-140			
Dibenz(a,h)anthracene	41.8	5.0	µg/L	50.0		83.5	40-140			
Fluoranthene	45.1	5.0	µg/L	50.0		90.1	40-140			
Fluorene	36.5	5.0	µg/L	50.0		73.0	40-140			
Indeno(1,2,3-cd)pyrene	41.3	5.0	µg/L	50.0		82.6	40-140			
2-Methylnaphthalene	35.9	5.0	µg/L	50.0		71.9	40-140			
Naphthalene	37.2	5.0	µg/L	50.0		74.5	40-140			
Phenanthrene	39.4	5.0	µg/L	50.0		78.9	40-140			
Pyrene	37.8	5.0	µg/L	50.0		75.7	40-140			
Surrogate: Nitrobenzene-d5	*75.1*		µg/L	100		75.1	30-130			
Surrogate: 2-Fluorobiphenyl	*69.1*		µg/L	100		69.1	30-130			
Surrogate: Terphenyl-d14	*74.6*		µg/L	100		74.6	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 B030171 - SW-846 3510C										
LCS Dup (B030171-BSD1)				Prepared: 05/09/11 Analyzed: 05/10/11						
Acenaphthene	39.7	5.0	µg/L	50.0		79.3	40-140	3.31	20	
Acenaphthylene	38.4	5.0	µg/L	50.0		76.8	40-140	2.32	20	
Anthracene	42.9	5.0	µg/L	50.0		85.8	40-140	4.09	20	
Benzo(a)anthracene	42.9	5.0	µg/L	50.0		85.9	40-140	1.41	20	
Benzo(a)pyrene	46.8	5.0	µg/L	50.0		93.6	40-140	2.05	20	
Benzo(b)fluoranthene	50.5	5.0	µg/L	50.0		101	40-140	6.19	20	
Benzo(g,h,i)perylene	43.6	5.0	µg/L	50.0		87.3	40-140	10.8	20	
Benzo(k)fluoranthene	44.9	5.0	µg/L	50.0		89.8	40-140	0.873	20	
Chrysene	42.0	5.0	µg/L	50.0		84.0	40-140	2.02	20	
Dibenz(a,h)anthracene	47.1	5.0	µg/L	50.0		94.2	40-140	12.1	20	
Fluoranthene	45.2	5.0	µg/L	50.0		90.3	40-140	0.177	20	
Fluorene	36.8	5.0	µg/L	50.0		73.6	40-140	0.819	20	
Indeno(1,2,3-cd)pyrene	46.2	5.0	µg/L	50.0		92.4	40-140	11.2	50	‡
2-Methylnaphthalene	36.9	5.0	µg/L	50.0		73.7	40-140	2.56	20	
Naphthalene	37.8	5.0	µg/L	50.0		75.6	40-140	1.47	20	
Phenanthrene	40.4	5.0	µg/L	50.0		80.7	40-140	2.31	20	
Pyrene	38.8	5.0	µg/L	50.0		77.7	40-140	2.58	20	
Surrogate: Nitrobenzene-d5	*75.7*		µg/L	100		75.7	30-130			
Surrogate: 2-Fluorobiphenyl	*69.3*		µg/L	100		69.3	30-130			
Surrogate: Terphenyl-d14	*73.9*		µg/L	100		73.9	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 B030169 - SW-846 3510C										
Blank (B030169-BLK1)				Prepared: 05/09/11 Analyzed: 05/10/11						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*2.27*		µg/L	2.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.22*		µg/L	2.00		111	30-150			
Surrogate: Tetrachloro-m-xylene	*2.23*		µg/L	2.00		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.14*		µg/L	2.00		107	30-150			
LCS (B030169-BS1)				Prepared: 05/09/11 Analyzed: 05/10/11						
Aroclor-1016	0.52	0.20	µg/L	0.500		104	40-140			
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		106	40-140			
Aroclor-1260	0.52	0.20	µg/L	0.500		104	40-140			
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		109	40-140			
Surrogate: Decachlorobiphenyl	*2.25*		µg/L	2.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.20*		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*2.44*		µg/L	2.00		122	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.34*		µg/L	2.00		117	30-150			
LCS Dup (B030169-BSD1)				Prepared: 05/09/11 Analyzed: 05/10/11						
Aroclor-1016	0.45	0.20	µg/L	0.500		89.5	40-140	15.0	20	
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.4	40-140	16.1	20	
Aroclor-1260	0.44	0.20	µg/L	0.500		88.9	40-140	15.2	20	
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		98.3	40-140	10.7	20	
Surrogate: Decachlorobiphenyl	*1.92*		µg/L	2.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.89*		µg/L	2.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.83*		µg/L	2.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.78*		µg/L	2.00		89.2	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 B030164 - SW-846 3005A										
Blank (B030164-BLK1)				Prepared & Analyzed: 05/09/11						
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							
Lead	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 (B030164-BS1)				Prepared & Analyzed: 05/09/11						
Antimony	100	2.0	µg/L	100		100	80-120			
Arsenic	106	0.80	µg/L	100		106	80-120			
Barium	100	20	µg/L	100		100	80-120			
Beryllium	97.1	0.80	µg/L	100		97.1	80-120			
Cadmium	103	1.0	µg/L	100		103	80-120			
Chromium	105	2.0	µg/L	100		105	80-120			
Lead	104	2.0	µg/L	100		104	80-120			
Nickel	102	10	µg/L	100		102	80-120			
Selenium	103	10	µg/L	100		103	80-120			
Silver	108	1.0	µg/L	100		108	80-120			
Thallium	99.2	0.40	µg/L	100		99.2	80-120			
Vanadium	103	10	µg/L	100		103	80-120			
Zinc	103	20	µg/L	100		103	80-120			
LCS Dup (B030164-BSD1)				Prepared & Analyzed: 05/09/11						
Antimony	99.9	2.0	µg/L	100		99.9	80-120	0.272	20	
Arsenic	105	0.80	µg/L	100		105	80-120	1.70	20	
Barium	99.8	20	µg/L	100		99.8	80-120	0.668	20	
Beryllium	94.9	0.80	µg/L	100		94.9	80-120	2.34	20	
Cadmium	101	1.0	µg/L	100		101	80-120	1.07	20	
Chromium	102	2.0	µg/L	100		102	80-120	2.77	20	
Lead	101	2.0	µg/L	100		101	80-120	2.37	20	
Nickel	99.1	10	µg/L	100		99.1	80-120	2.62	20	
Selenium	102	10	µg/L	100		102	80-120	0.305	20	
Silver	108	1.0	µg/L	100		108	80-120	0.245	20	
Thallium	98.1	0.40	µg/L	100		98.1	80-120	1.18	20	
Vanadium	101	10	µg/L	100		101	80-120	2.24	20	
Zinc	101	20	µg/L	100		101	80-120	1.87	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 B030164 - SW-846 3005A										
Duplicate (B030164-DUP1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Antimony	2.80	1.0	µg/L		2.77			0.792	20	
Arsenic	ND	0.40	µg/L		ND			NC	20	
Barium	16.3	10	µg/L		16.0			1.84	20	
Beryllium	ND	0.40	µg/L		ND			NC	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	ND	1.0	µg/L		ND			NC	20	
Lead	2.37	1.0	µg/L		2.38			0.807	20	
Nickel	ND	5.0	µg/L		ND			NC	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	27.9	10	µg/L		26.3			6.04	20	
Matrix Spike (B030164-MS1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Antimony	104	5.0	µg/L	100	2.77	101	75-125			
Arsenic	107	2.0	µg/L	100	ND	107	75-125			
Barium	116	50	µg/L	100	16.0	100	75-125			
Beryllium	99.6	2.0	µg/L	100	ND	99.6	75-125			
Cadmium	103	2.5	µg/L	100	0.0391	103	75-125			
Chromium	103	5.0	µg/L	100	ND	103	75-125			
Lead	108	5.0	µg/L	100	2.38	105	75-125			
Nickel	101	25	µg/L	100	0.393	101	75-125			
Selenium	103	25	µg/L	100	ND	103	75-125			
Silver	110	2.5	µg/L	100	0.0206	110	75-125			
Thallium	102	1.0	µg/L	100	ND	102	75-125			
Vanadium	103	25	µg/L	100	0.543	102	75-125			
Zinc	129	50	µg/L	100	26.3	103	75-125			
Batch B030173 - SW-846 7470A Prep										
Blank (B030173-BLK1)				Prepared & Analyzed: 05/09/11						
Mercury	ND	0.00010	mg/L							
LCS (B030173-BS1)				Prepared & Analyzed: 05/09/11						
Mercury	0.00199	0.00010	mg/L	0.00200		99.7	80-120			
LCS Dup (B030173-BSD1)				Prepared & Analyzed: 05/09/11						
Mercury	0.00193	0.00010	mg/L	0.00200		96.4	80-120	3.38	20	
Duplicate (B030173-DUP1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Mercury	ND	0.00010	mg/L		ND			NC	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 B030173 - SW-846 7470A Prep										
Matrix Spike (B030173-MS1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Mercury	0.00197	0.00010	mg/L	0.00200	ND	98.4	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 B030165 - SW-846 3005A Dissolved										
Blank (B030165-BLK1)				Prepared & Analyzed: 05/09/11						
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							
Lead	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 (B030165-BS1)				Prepared & Analyzed: 05/09/11						
Antimony	100	2.0	µg/L	100		100	80-120			
Arsenic	102	0.80	µg/L	100		102	80-120			
Barium	100	20	µg/L	100		100	80-120			
Beryllium	94.5	0.80	µg/L	100		94.5	80-120			
Cadmium	99.4	1.0	µg/L	100		99.4	80-120			
Chromium	100	2.0	µg/L	100		100	80-120			
Lead	102	2.0	µg/L	100		102	80-120			
Nickel	97.4	10	µg/L	100		97.4	80-120			
Selenium	101	10	µg/L	100		101	80-120			
Silver	106	1.0	µg/L	100		106	80-120			
Thallium	97.6	0.40	µg/L	100		97.6	80-120			
Vanadium	98.2	10	µg/L	100		98.2	80-120			
Zinc	99.0	20	µg/L	100		99.0	80-120			
LCS Dup (B030165-BSD1)				Prepared & Analyzed: 05/09/11						
Antimony	103	2.0	µg/L	100		103	80-120	3.21	20	
Arsenic	107	0.80	µg/L	100		107	80-120	4.65	20	
Barium	102	20	µg/L	100		102	80-120	2.02	20	
Beryllium	99.9	0.80	µg/L	100		99.9	80-120	5.63	20	
Cadmium	105	1.0	µg/L	100		105	80-120	5.69	20	
Chromium	106	2.0	µg/L	100		106	80-120	5.77	20	
Lead	105	2.0	µg/L	100		105	80-120	3.58	20	
Nickel	102	10	µg/L	100		102	80-120	4.75	20	
Selenium	104	10	µg/L	100		104	80-120	2.75	20	
Silver	110	1.0	µg/L	100		110	80-120	3.44	20	
Thallium	100	0.40	µg/L	100		100	80-120	2.75	20	
Vanadium	104	10	µg/L	100		104	80-120	5.37	20	
Zinc	106	20	µg/L	100		106	80-120	6.92	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 B030165 - SW-846 3005A Dissolved										
Duplicate (B030165-DUP1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Antimony	2.60	1.0	µg/L		2.68			3.07	20	
Arsenic	ND	0.40	µg/L		ND			NC	20	
Barium	14.8	10	µg/L		15.6			4.89	20	
Beryllium	ND	0.40	µg/L		ND			NC	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	ND	1.0	µg/L		ND			NC	20	
Lead	1.38	1.0	µg/L		1.35			2.15	20	
Nickel	ND	5.0	µg/L		ND			NC	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	25.6	10	µg/L		26.2			2.44	20	
Matrix Spike (B030165-MS1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Antimony	102	5.0	µg/L	100	2.68	99.8	75-125			
Arsenic	106	2.0	µg/L	100	0.174	106	75-125			
Barium	117	50	µg/L	100	15.6	101	75-125			
Beryllium	98.4	2.0	µg/L	100	ND	98.4	75-125			
Cadmium	104	2.5	µg/L	100	0.0380	104	75-125			
Chromium	102	5.0	µg/L	100	ND	102	75-125			
Lead	105	5.0	µg/L	100	1.35	103	75-125			
Nickel	99.9	25	µg/L	100	0.538	99.4	75-125			
Selenium	103	25	µg/L	100	ND	103	75-125			
Silver	108	2.5	µg/L	100	ND	108	75-125			
Thallium	100	1.0	µg/L	100	ND	100	75-125			
Vanadium	101	25	µg/L	100	ND	101	75-125			
Zinc	129	50	µg/L	100	26.2	102	75-125			
Batch B030174 - SW-846 7470A Prep										
Blank (B030174-BLK1)				Prepared & Analyzed: 05/09/11						
Mercury	ND	0.00010	mg/L							
LCS (B030174-BS1)				Prepared & Analyzed: 05/09/11						
Mercury	0.00196	0.00010	mg/L	0.00200		98.0	80-120			
LCS Dup (B030174-BSD1)				Prepared & Analyzed: 05/09/11						
Mercury	0.00196	0.00010	mg/L	0.00200		98.1	80-120	0.0425	20	
Duplicate (B030174-DUP1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Mercury	ND	0.00010	mg/L		ND			NC	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 B030174 - SW-846 7470A Prep										
Matrix Spike (B030174-MS1)		**Source: 11E0201-01**		Prepared & Analyzed: 05/09/11						
Mercury	0.00201	0.00010	mg/L	0.00200	ND	100	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020A in Water	
Antimony	CT,NH,NY,RI,NC
Antimony	CT,NH,NY,RI,NC
Arsenic	CT,NH,NY,RI,NC
Arsenic	CT,NH,NY,RI,NC
Barium	MA,NY,CT,NC
Barium	CT,NH,NY,RI,NC
Beryllium	CT,NH,NY,RI,NC
Beryllium	CT,NH,NY,RI,NC
Cadmium	CT,NH,NY,RI,NC
Cadmium	CT,NH,NY,RI,NC
Chromium	CT,NH,NY,RI,NC
Chromium	CT,NH,NY,RI,NC
Lead	CT,NH,NY,RI,NC
Lead	CT,NH,NY,RI,NC
Nickel	CT,NH,NY,RI,NC
Nickel	CT,NH,NY,RI,NC
Selenium	CT,NH,NY,RI,NC
Selenium	CT,NH,NY,RI,NC
Silver	CT,NC,NH,NY,RI
Silver	CT,NH,NY,RI,NC
Thallium	CT,NH,NY,RI,NC
Thallium	CT,NH,NY,RI,NC
Vanadium	CT,NH,NY,RI,NC
Vanadium	CT,NC,NH,NY,RI
Zinc	CT,NH,NY,RI,NC
Zinc	CT,NH,NY,RI,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,RI,NC
Mercury	CT,NH,NY,RI,NC
SW-846 8082 in Water	
Aroclor-1016	CT,NH,NY,RI,NC
Aroclor-1016 [2C]	CT,NH,NY,RI,NC
Aroclor-1221	CT,NH,NY,RI,NC
Aroclor-1221 [2C]	CT,NH,NY,RI,NC
Aroclor-1232	CT,NH,NY,RI,NC
Aroclor-1232 [2C]	CT,NH,NY,RI,NC
Aroclor-1242	CT,NH,NY,RI,NC
Aroclor-1242 [2C]	CT,NH,NY,RI,NC
Aroclor-1248	CT,NH,NY,RI,NC
Aroclor-1248 [2C]	CT,NH,NY,RI,NC
Aroclor-1254	CT,NH,NY,RI,NC
Aroclor-1254 [2C]	CT,NH,NY,RI,NC
Aroclor-1260	CT,NH,NY,RI,NC
Aroclor-1260 [2C]	CT,NH,NY,RI,NC
Aroclor-1262	NC
Aroclor-1262 [2C]	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082 in Water	
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8270C in Water	
Acenaphthene	CT,NY,NH,RI
Acenaphthylene	CT,NY,NH,RI
Anthracene	CT,NY,NH,RI
Benzo(a)anthracene	CT,NY,NH,RI
Benzo(a)pyrene	CT,NY,NH,RI
Benzo(b)fluoranthene	CT,NY,NH,RI
Benzo(g,h,i)perylene	CT,NY,NH,RI
Benzo(k)fluoranthene	CT,NY,NH,RI
Chrysene	CT,NY,NH,RI
Dibenz(a,h)anthracene	CT,NY,NH,RI
Fluoranthene	CT,NY,NH,RI
Fluorene	NY,NH,RI
Indeno(1,2,3-cd)pyrene	CT,NY,NH,RI
2-Methylnaphthalene	CT,NY,NH
Naphthalene	CT,NY,NH,RI
Phenanthrene	CT,NY,NH,RI
Pyrene	CT,NY,NH,RI

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

2 coolers
11E0201

Company Name: TRC
Address: 650 Suffolk Street
Lowell MA 01854
Attention: David Sullivan
Project Location: City of NB – Transfer Stat.
Sampled By: J. Saunders

Telephone: 978-656-3565
Project # 115055
Client PO# TBD

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ☒ WEBSITE
Fax #
Email: dsullivan@trcsolutions.com
Format: ☒ PDF ○ EXCEL ☒ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes 2007 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	Total MCP Metals + Hg	Diss. MCP Metals + Hg *	PAHs	PCBs										
								1	1	2	2										# of Containers
								N	N	A	A										** Preservation
								P/G	P/G	I	I										***Container Code
	SW-A-1	5/6/11	1000		X	SW	L	X	X	X	X										
	SW-A-1D		1015		X			X	X	X	X										
	SW-B-1		1100		X			X	X	X	X										
	SW-D-1		1130		X			X	X	X	X										
	SW-C-1	5/6/11	1230		X	SW	L	X	X	X	X										

ANALYSIS REQUESTED

Dissolved Metals
● Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other SW (surface water)

Comments:
* Field Filtered (0.45 µm)
☆ COC 2.0°C 5/6/11 1759

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	5/6/11 1520
Received by: (signature)	Date/Time:
	5-6-11 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
	5/6/11 1759

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: per Quote
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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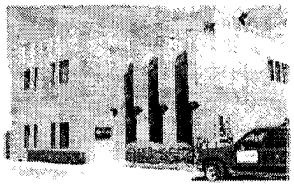
Sample Receipt Checklist



CLIENT NAME: TRC RECEIVED BY: CM DATE: 5/6/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank: _____ Temperature °C by Temp gun: 2.0°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	20	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	10	Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: (Yes) No N/A _____

Do all samples have the proper Base pH: Yes No (N/A) _____

March 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11E0201
Project Location: City of New Bedford- Transfer Stat.	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11E0201-01 thru 11E0201-05

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D (X)	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**		
H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/13/11

MEDEIROS & SONS CONSTRUCTION, INC.

February 4, 2011

TRC Solutions Inc.
zrichards@trcsolutions.com

RE: City of New Bedford Jobs: Various Material's Source

Mr. Richards:

This letter is to inform you that the Screen Fill, Structural Fill and Sandy Fill from Medeiros & Sons' Construction, Inc. will be and is from the same sources as previous materials purchased and tested by the City of New Bedford.

Regarding the loam as we understand the previous samples have not passed, we do have another source we may be able to access, but the material would have to be tested. Please let us know if you would like us to provide a sample for testing.

If any other information is required please let me know.

Sincerely,

Dawn F Thibeault
Medeiros & Sons Construction, Inc.

Cc: Cheryl Henlin, Environmental Planner, City of New Bedford, MA

620 Chase Road ~ Dartmouth MA 02747
Tel: (508) 997-4921 ~ Fax: (508) 997-4928

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July 2, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City of New Bedford
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10F0335

Enclosed are results of analyses for samples received by the laboratory on June 11, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 7/2/2010

PURCHASE ORDER NUMBER: 24747

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10F0335

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: City of New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Med-Soil-1	10F0335-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8260B	
				SW-846 8270C	

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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 - 07/01/2010 - Full 8270 compound list added to blank, LCS and LCS Duplicate.

For method 6010, only RCRA 8 metals were requested and reported.

SW-846 8260B

Qualifications:

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:

Bromoform, Chlorodibromomethane

B014901-BS1, B014901-BSD1

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:

Acetone, Bromomethane

B014901-BS1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Chlorodibromomethane

B014901-BS1, B014901-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane, 2-Butanone (MEK), Acetone, Tetrahydrofuran

10F0335-01[Med-Soil-1], B014901-BLK1, B014901-BS1, B014901-BSD1

SW-846 8270C

Qualifications:

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B014882-BLK1, B014882-BS1, B014882-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

10F0335-01[Med-Soil-1], B014882-BLK1, B014882-BS1, B014882-BSD1

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MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

SW-846 8260B

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 somewhere between 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, tert-butyl alcohol, acetone, 1,4-dioxane, vinyl chloride, chloromethane, dichlorodifluoromethane, 2-hexanone, naphthalene, methylene chloride, and tert-butylbenzene, bromomethane.

Duplicate laboratory fortified blank RPDs were all within control limits specified by the method except for “difficult analytes” where RPDs of 50% are used and/or unless otherwise listed in this narrative. Difficult analyte: 1,4-dioxane

SW-846 8270C

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 for soil LCS - limits between 10 and 180% depending on the compound(see QC summary report for limits): 3,3’-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for ”difficult analytes” where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative. Difficult analytes for soil RPDs: 3,3’-dichlorobenzidine, 4-nitrophenol, and aniline.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.097	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromomethane	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2-Butanone (MEK)	ND	0.039	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Carbon Disulfide	ND	0.0058	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chlorodibromomethane	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chloroform	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chloromethane	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1-Dichloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,3-Dichloropropane	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
cis-1,3-Dichloropropene	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Diisopropyl Ether (DIPE)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,4-Dioxane	ND	0.097	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Naphthalene	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Tetrahydrofuran	ND	0.0097	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Vinyl Chloride	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
m+p Xylene	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag		
1,2-Dichloroethane-d4	105	70-130		6/14/10	9:28
Toluene-d8	102	70-130		6/14/10	9:28
4-Bromofluorobenzene	98.7	70-130		6/14/10	9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(a)anthracene	0.46	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(a)pyrene	0.42	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(b)fluoranthene	0.54	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(g,h,i)perylene	0.25	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(k)fluoranthene	0.22	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Chrysene	0.47	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-19	SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Fluoranthene	0.61	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Indeno(1,2,3-cd)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL

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Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Phenanthrene	0.28	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Pyrene	0.60	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	92.7	30-130		6/16/10 18:10
Phenol-d6	87.9	30-130		6/16/10 18:10
Nitrobenzene-d5	88.8	30-130		6/16/10 18:10
2-Fluorobiphenyl	89.2	30-130		6/16/10 18:10
2,4,6-Tribromophenol	94.3	30-130		6/16/10 18:10
Terphenyl-d14	66.7	30-130		6/16/10 18:10

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Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
alpha-BHC [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
beta-BHC [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
delta-BHC [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
gamma-BHC (Lindane) [1]	ND	0.017	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Chlordane [1]	ND	0.11	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
4,4'-DDD [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
4,4'-DDE [1]	ND	0.022	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
4,4'-DDT [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Dieldrin [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endosulfan I [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endosulfan II [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endosulfan sulfate [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endrin [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endrin ketone [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Heptachlor [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Heptachlor epoxide [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Hexachlorobenzene [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Methoxychlor [1]	ND	0.28	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	70.5	30-150		6/16/10 12:39
Decachlorobiphenyl [2]	80.7	30-150		6/16/10 12:39
Tetrachloro-m-xylene [1]	87.8	30-150		6/16/10 12:39
Tetrachloro-m-xylene [2]	88.0	30-150		6/16/10 12:39

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Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.2	30-150		6/17/10 0:29
Decachlorobiphenyl [2]	81.5	30-150		6/17/10 0:29
Tetrachloro-m-xylene [1]	102	30-150		6/17/10 0:29
Tetrachloro-m-xylene [2]	113	30-150		6/17/10 0:29

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Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
C19-C36 Aliphatics	ND	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Unadjusted C11-C22 Aromatics	33	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
C11-C22 Aromatics	27	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Acenaphthene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Acenaphthylene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Anthracene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(a)anthracene	0.48	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(a)pyrene	0.56	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(b)fluoranthene	0.73	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(g,h,i)perylene	0.45	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(k)fluoranthene	0.25	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Chrysene	0.53	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Fluoranthene	0.86	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Fluorene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Indeno(1,2,3-cd)pyrene	0.35	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
2-Methylnaphthalene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Naphthalene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Phenanthrene	0.38	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Pyrene	0.91	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	78.4	40-140		6/16/10 23:36
o-Terphenyl (OTP)	89.1	40-140		6/16/10 23:36
2-Bromonaphthalene	102	40-140		6/16/10 23:36
2-Fluorobiphenyl	99.6	40-140		6/16/10 23:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.99

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Benzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Ethylbenzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Naphthalene	ND	0.65	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Toluene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
o-Xylene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	116	70-130		6/14/10 15:53
2,5-Dibromotoluene (PID)	117	70-130		6/14/10 15:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Barium	24	2.8	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Chromium	8.4	0.56	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Lead	12	0.83	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Mercury	0.035	0.016	mg/Kg dry	1		SW-846 7471A	6/14/10	6/15/10 10:46	MPF
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford | Sample Description: | Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	6/12/10	6/14/10 9:12	NH

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Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014881	20.1	2.00	06/14/10

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014886	14.9	17.5	06/14/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10F0335-01 [Med-Soil-1]	B014864	06/12/10

Prep Method: SW-846 3050B-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014875	0.999	50.0	06/14/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014890	0.176	25.0	06/14/10

Prep Method: SW-846 3546-SW-846 8081A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014877	10.0	10.0	06/14/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014878	10.0	50.0	06/14/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014901	5.70	10.0	06/14/10

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014882	30.0	1.00	06/14/10

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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 B014901 - SW-846 5035										
Blank (B014901-BLK1)				Prepared & Analyzed: 06/14/10						
Acetone	ND	0.10	mg/Kg wet							V-16
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							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							V-16
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	0.020	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	0.020	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	0.0020	mg/Kg wet							
Diethyl Ether	ND	0.020	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	0.020	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 B014901 - SW-846 5035												
Blank (B014901-BLK1)				Prepared & Analyzed: 06/14/10								
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								V-16	
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	*0.0527*		mg/Kg wet	0.0500		105		70-130				
Surrogate: Toluene-d8	*0.0508*		mg/Kg wet	0.0500		102		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0486*		mg/Kg wet	0.0500		97.3		70-130				
LCS (B014901-BS1)				Prepared & Analyzed: 06/14/10								
Acetone	0.336	0.10	mg/Kg wet	0.200		**168**	*	70-160			L-07, V-16	†
tert-Amyl Methyl Ether (TAME)	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130				
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130				
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
Bromochloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
Bromodichloromethane	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130				
Bromoform	0.0299	0.0020	mg/Kg wet	0.0200		**149**	*	70-130			L-04, V-06	
Bromomethane	0.00748	0.010	mg/Kg wet	0.0200		**37.4**	*	40-130			L-07	†
2-Butanone (MEK)	0.261	0.040	mg/Kg wet	0.200		130		70-160			V-16	†
n-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130				
sec-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130				
tert-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130				
Carbon Disulfide	0.0223	0.0060	mg/Kg wet	0.0200		112		70-130				
Carbon Tetrachloride	0.0237	0.0020	mg/Kg wet	0.0200		118		70-130				
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
Chlorodibromomethane	0.0280	0.0010	mg/Kg wet	0.0200		**140**	*	70-130			L-04, V-06	
Chloroethane	0.0193	0.020	mg/Kg wet	0.0200		96.6		70-130				
Chloroform	0.0212	0.0040	mg/Kg wet	0.0200		106		70-130				
Chloromethane	0.0151	0.010	mg/Kg wet	0.0200		75.4		70-130				
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130				
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0227	0.0020	mg/Kg wet	0.0200		113		70-130			V-06	
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106		70-130				
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
1,3-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
1,4-Dichlorobenzene	0.0201	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 B014901 - SW-846 5035											
LCS (B014901-BS1)				Prepared & Analyzed: 06/14/10							
Dichlorodifluoromethane (Freon 12)	0.0211	0.020	mg/Kg wet	0.0200		106	40-160				†
1,1-Dichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130				
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130				
1,1-Dichloroethylene	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130				
cis-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130				
trans-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130				
1,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130				
1,3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130				
2,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130				
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130				
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130				
trans-1,3-Dichloropropene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130				
Diethyl Ether	0.0188	0.020	mg/Kg wet	0.0200		94.0	70-130				
Diisopropyl Ether (DIPE)	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130				
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.2	40-160			V-16	†
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130				
Hexachlorobutadiene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-160				
2-Hexanone (MBK)	0.223	0.020	mg/Kg wet	0.200		112	70-160				†
Isopropylbenzene (Cumene)	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130				
p-Isopropyltoluene (p-Cymene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130				
Methylene Chloride	0.0184	0.020	mg/Kg wet	0.0200		92.2	40-160				†
4-Methyl-2-pentanone (MIBK)	0.187	0.020	mg/Kg wet	0.200		93.7	70-160				†
Naphthalene	0.0223	0.0040	mg/Kg wet	0.0200		112	40-130				†
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130				
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
1,1,1,2-Tetrachloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130				
1,1,2,2-Tetrachloroethane	0.0198	0.0010	mg/Kg wet	0.0200		99.1	70-130				
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130				
Tetrahydrofuran	0.0166	0.010	mg/Kg wet	0.0200		83.2	70-130			V-16	
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130				
1,2,3-Trichlorobenzene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130				
1,2,4-Trichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130				
1,1,1-Trichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130				
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130				
Trichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130				
Trichlorofluoromethane (Freon 11)	0.0251	0.010	mg/Kg wet	0.0200		126	70-130				
1,2,3-Trichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130				
1,2,4-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130				
1,3,5-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130				
Vinyl Chloride	0.0183	0.010	mg/Kg wet	0.0200		91.5	40-130				†
m+p Xylene	0.0425	0.0040	mg/Kg wet	0.0400		106	70-130				
o-Xylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0536*		mg/Kg wet	0.0500		107	70-130				
Surrogate: Toluene-d8	*0.0517*		mg/Kg wet	0.0500		103	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/Kg wet	0.0500		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 B014901 - SW-846 5035												
LCS Dup (B014901-BSD1)				Prepared & Analyzed: 06/14/10								
Acetone	0.302	0.10	mg/Kg wet	0.200		151		70-160	11.0	25	V-16	†
tert-Amyl Methyl Ether (TAME)	0.0195	0.0010	mg/Kg wet	0.0200		97.3		70-130	5.79	25		
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130	1.91	25		
Bromobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	1.55	25		
Bromochloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	3.79	25		
Bromodichloromethane	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	4.24	25		
Bromoform	0.0287	0.0020	mg/Kg wet	0.0200		**144**	*	70-130	3.89	25	L-04, V-06	
Bromomethane	0.00858	0.010	mg/Kg wet	0.0200		42.9		40-130	13.7	25		†
2-Butanone (MEK)	0.234	0.040	mg/Kg wet	0.200		117		70-160	10.7	25	V-16	†
n-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130	1.17	25		
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113		70-130	0.624	25		
tert-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-160	2.24	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.0200		97.2		70-130	5.60	25		
Carbon Disulfide	0.0217	0.0060	mg/Kg wet	0.0200		109		70-130	2.72	25		
Carbon Tetrachloride	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130	2.05	25		
Chlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	0.770	25		
Chlorodibromomethane	0.0269	0.0010	mg/Kg wet	0.0200		**135**	*	70-130	4.00	25	L-04, V-06	
Chloroethane	0.0187	0.020	mg/Kg wet	0.0200		93.7		70-130	3.05	25		
Chloroform	0.0206	0.0040	mg/Kg wet	0.0200		103		70-130	2.88	25		
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.5		70-130	1.20	25		
2-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	1.63	25		
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	2.31	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	4.60	25	V-06	
1,2-Dibromoethane (EDB)	0.0204	0.0010	mg/Kg wet	0.0200		102		70-130	3.94	25		
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130	6.49	25		
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	1.25	25		
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	0.673	25		
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	1.10	25		
Dichlorodifluoromethane (Freon 12)	0.0204	0.020	mg/Kg wet	0.0200		102		40-160	3.56	25		†
1,1-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1		70-130	2.71	25		
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.3		70-130	2.41	25		
1,1-Dichloroethylene	0.0207	0.0040	mg/Kg wet	0.0200		103		70-130	1.82	25		
cis-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	3.07	25		
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	1.37	25		
1,2-Dichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130	2.93	25		
1,3-Dichloropropane	0.0189	0.0010	mg/Kg wet	0.0200		94.7		70-130	3.43	25		
2,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	1.68	25		
1,1-Dichloropropene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	2.04	25		
cis-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130	2.60	25		
trans-1,3-Dichloropropene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130	4.36	25		
Diethyl Ether	0.0188	0.020	mg/Kg wet	0.0200		93.8		70-130	0.213	25		
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.7		70-130	4.16	25		
1,4-Dioxane	0.190	0.10	mg/Kg wet	0.200		94.8		40-160	3.54	50	V-16	† ‡
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	0.379	25		
Hexachlorobutadiene	0.0247	0.0020	mg/Kg wet	0.0200		123		70-160	0.404	25		
2-Hexanone (MBK)	0.199	0.020	mg/Kg wet	0.200		99.6		70-160	11.4	25		†
Isopropylbenzene (Cumene)	0.0252	0.0020	mg/Kg wet	0.0200		126		70-130	0.158	25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	0.442	25		
Methyl tert-Butyl Ether (MTBE)	0.0194	0.0040	mg/Kg wet	0.0200		97.1		70-130	3.34	25		
Methylene Chloride	0.0181	0.020	mg/Kg wet	0.0200		90.4		40-160	1.97	25		†
4-Methyl-2-pentanone (MIBK)	0.177	0.020	mg/Kg wet	0.200		88.4		70-160	5.83	25		†
Naphthalene	0.0209	0.0040	mg/Kg wet	0.0200		105		40-130	6.56	25		†

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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 B014901 - SW-846 5035											
LCS Dup (B014901-BSD1)				Prepared & Analyzed: 06/14/10							
n-Propylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	0.842	25		
Styrene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	1.34	25		
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.442	25		
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130	2.76	25		
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	25		
Tetrahydrofuran	0.0162	0.010	mg/Kg wet	0.0200		80.8	70-130	2.93	25	V-16	
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	2.26	25		
1,2,3-Trichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	8.08	25		
1,2,4-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	6.89	25		
1,1,1-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.07	25		
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	3.22	25		
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	3.10	25		
Trichlorofluoromethane (Freon 11)	0.0246	0.010	mg/Kg wet	0.0200		123	70-130	2.09	25		
1,2,3-Trichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130	4.11	25		
1,2,4-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.273	25		
1,3,5-Trimethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.733	25		
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.7	40-130	3.11	25		†
m+p Xylene	0.0423	0.0040	mg/Kg wet	0.0400		106	70-130	0.424	25		
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	0.382	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0523*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0513*		mg/Kg wet	0.0500		103	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0499*		mg/Kg wet	0.0500		99.7	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 B014882 - SW-846 3546										
Blank (B014882-BLK1)				Prepared: 06/14/10 Analyzed: 06/15/10						
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							
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	0.66	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
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	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05, V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							
1,2-Diphenylhydrazine (as 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 B014882 - SW-846 3546											
Blank (B014882-BLK1)				Prepared: 06/14/10 Analyzed: 06/15/10							
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	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	*4.91*		mg/Kg wet	6.67		73.6	30-130				
Surrogate: Phenol-d6	*5.18*		mg/Kg wet	6.67		77.6	30-130				
Surrogate: Nitrobenzene-d5	*2.47*		mg/Kg wet	3.33		74.1	30-130				
Surrogate: 2-Fluorobiphenyl	*2.01*		mg/Kg wet	3.33		60.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.96*		mg/Kg wet	6.67		89.4	30-130				
Surrogate: Terphenyl-d14	*2.62*		mg/Kg wet	3.33		78.5	30-130				
LCS (B014882-BS1)				Prepared: 06/14/10 Analyzed: 06/15/10							
Acenaphthene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140				
Acenaphthylene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140				
Acetophenone	0.669	0.34	mg/Kg wet	0.833		80.3	40-140				
Aniline	0.845	0.34	mg/Kg wet	1.67		50.7	10-140				†
Anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140				
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140				
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140				
Benzo(b)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140				
Benzo(g,h,i)perylene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140				
Benzo(k)fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140				
Bis(2-chloroethoxy)methane	1.38	0.34	mg/Kg wet	1.67		82.6	40-140				
Bis(2-chloroethyl)ether	1.38	0.34	mg/Kg wet	1.67		82.7	40-140				
Bis(2-chloroisopropyl)ether	1.70	0.34	mg/Kg wet	1.67		102	40-140				
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.5	40-140				
4-Bromophenylphenylether	1.29	0.34	mg/Kg wet	1.67		77.2	40-140				
Butylbenzylphthalate	1.65	0.66	mg/Kg wet	1.67		98.8	40-140				
4-Chloroaniline	0.576	0.66	mg/Kg wet	1.67		34.5	10-140				†
2-Chloronaphthalene	1.02	0.34	mg/Kg wet	1.67		61.3	40-140				
2-Chlorophenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130				
Chrysene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140				
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140				
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Di-n-butylphthalate	1.58	0.34	mg/Kg wet	1.67		95.1	40-140				
1,2-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140				
1,3-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.4	40-140				
1,4-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.3	40-140				
3,3-Dichlorobenzidine	0.875	0.17	mg/Kg wet	1.67		52.5	20-140				†
2,4-Dichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130				
Diethylphthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140				
2,4-Dimethylphenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130				
Dimethylphthalate	1.61	0.66	mg/Kg wet	1.67		96.5	40-140				
2,4-Dinitrophenol	0.847	0.66	mg/Kg wet	1.67		50.8	30-130			R-05, V-19	
2,4-Dinitrotoluene	1.84	0.34	mg/Kg wet	1.67		110	40-140				
2,6-Dinitrotoluene	1.63	0.34	mg/Kg wet	1.67		97.7	40-140				
Di-n-octylphthalate	1.74	0.66	mg/Kg wet	1.67		104	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	1.59	0.34	mg/Kg wet	1.67		95.3	40-140				
Fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140				
Fluorene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140				
Hexachlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.3	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 B014882 - SW-846 3546										
LCS (B014882-BS1)				Prepared: 06/14/10 Analyzed: 06/15/10						
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		71.0	40-140			
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Isophorone	1.47	0.34	mg/Kg wet	1.67		88.4	40-140			
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130			
3/4-Methylphenol	1.15	0.34	mg/Kg wet	1.67		68.7	30-130			
Naphthalene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Nitrobenzene	1.34	0.34	mg/Kg wet	1.67		80.3	40-140			
2-Nitrophenol	1.29	0.34	mg/Kg wet	1.67		77.2	30-130			
4-Nitrophenol	1.14	0.66	mg/Kg wet	1.67		68.3	30-130			
Pentachlorophenol	0.866	0.34	mg/Kg wet	1.67		51.9	30-130			
Phenanthrene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Phenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130			
Pyrene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140			
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
2,4,5-Trichlorophenol	1.25	0.34	mg/Kg wet	1.67		74.8	30-130			
2,4,6-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		78.2	30-130			
Surrogate: 2-Fluorophenol	*5.13*		mg/Kg wet	6.67		76.9	30-130			
Surrogate: Phenol-d6	*5.06*		mg/Kg wet	6.67		75.9	30-130			
Surrogate: Nitrobenzene-d5	*2.70*		mg/Kg wet	3.33		81.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.30*		mg/Kg wet	6.67		109	30-130			
Surrogate: Terphenyl-d14	*2.79*		mg/Kg wet	3.33		83.6	30-130			
LCS Dup (B014882-BSD1)				Prepared: 06/14/10 Analyzed: 06/15/10						
Acenaphthene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	3.03	30	
Acenaphthylene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140	2.40	30	
Acetophenone	0.690	0.34	mg/Kg wet	0.833		82.8	40-140	3.09	30	
Aniline	0.889	0.34	mg/Kg wet	1.67		53.3	10-140	5.04	50	† ‡
Anthracene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	3.90	30	
Benzo(a)anthracene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	3.16	30	
Benzo(a)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	3.89	30	
Benzo(b)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	0.438	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	7.90	30	
Benzo(k)fluoranthene	1.37	0.17	mg/Kg wet	1.67		82.4	40-140	3.76	30	
Bis(2-chloroethoxy)methane	1.44	0.34	mg/Kg wet	1.67		86.7	40-140	4.84	30	
Bis(2-chloroethyl)ether	1.48	0.34	mg/Kg wet	1.67		88.6	40-140	6.94	30	
Bis(2-chloroisopropyl)ether	1.76	0.34	mg/Kg wet	1.67		106	40-140	3.70	30	
Bis(2-Ethylhexyl)phthalate	1.69	0.34	mg/Kg wet	1.67		101	40-140	2.90	30	
4-Bromophenylphenylether	1.37	0.34	mg/Kg wet	1.67		82.0	40-140	6.03	30	
Butylbenzylphthalate	1.67	0.66	mg/Kg wet	1.67		100	40-140	1.19	30	
4-Chloroaniline	0.573	0.66	mg/Kg wet	1.67		34.4	10-140	0.464	30	†
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	4.41	30	
2-Chlorophenol	1.35	0.34	mg/Kg wet	1.67		81.0	30-130	4.62	30	
Chrysene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140	3.04	30	
Dibenz(a,h)anthracene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	7.50	30	
Dibenzofuran	1.48	0.34	mg/Kg wet	1.67		88.5	40-140	2.84	30	
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		92.7	40-140	2.53	30	
1,2-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	5.28	30	
1,3-Dichlorobenzene	1.18	0.34	mg/Kg wet	1.67		71.0	40-140	3.73	30	
1,4-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	3.99	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 B014882 - SW-846 3546												
LCS Dup (B014882-BSD1)				Prepared: 06/14/10 Analyzed: 06/15/10								
3,3-Dichlorobenzidine	0.894	0.17	mg/Kg wet	1.67		53.6	20-140	2.07		50		† ‡
2,4-Dichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.8	30-130	3.46		30		
Diethylphthalate	1.71	0.34	mg/Kg wet	1.67		102	40-140	2.39		30		
2,4-Dimethylphenol	1.51	0.34	mg/Kg wet	1.67		90.8	30-130	4.11		30		
Dimethylphthalate	1.62	0.66	mg/Kg wet	1.67		96.9	40-140	0.496		30		
2,4-Dinitrophenol	0.551	0.66	mg/Kg wet	1.67		33.0	30-130	**42.4**	*	30	R-05, V-19	
2,4-Dinitrotoluene	1.66	0.34	mg/Kg wet	1.67		99.5	40-140	10.5		30		
2,6-Dinitrotoluene	1.60	0.34	mg/Kg wet	1.67		96.2	40-140	1.55		30		
Di-n-octylphthalate	1.69	0.66	mg/Kg wet	1.67		101	40-140	2.88		30		
1,2-Diphenylhydrazine (as Azobenzene)	1.73	0.34	mg/Kg wet	1.67		104	40-140	8.31		30		
Fluoranthene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	3.98		30		
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	1.21		30		
Hexachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	6.39		30		
Hexachlorobutadiene	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	5.53		30		
Hexachloroethane	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	5.05		30		
Indeno(1,2,3-cd)pyrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	7.40		30		
Isophorone	1.52	0.34	mg/Kg wet	1.67		91.2	40-140	3.19		30		
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	2.00		30		
2-Methylphenol	1.15	0.34	mg/Kg wet	1.67		69.1	30-130	4.29		30		
3/4-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130	4.30		30		
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	4.05		30		
Nitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.2	40-140	4.82		30		
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		81.3	30-130	5.18		30		
4-Nitrophenol	0.978	0.66	mg/Kg wet	1.67		58.7	30-130	15.2		50		‡
Pentachlorophenol	0.676	0.34	mg/Kg wet	1.67		40.5	30-130	24.7		30		
Phenanthrene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	1.82		30		
Phenol	1.22	0.34	mg/Kg wet	1.67		73.0	30-130	3.83		30		
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.6	40-140	4.88		30		
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.3	40-140	4.60		30		
2,4,5-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	1.18		30		
2,4,6-Trichlorophenol	1.35	0.34	mg/Kg wet	1.67		81.1	30-130	3.64		30		
Surrogate: 2-Fluorophenol	*5.09*		mg/Kg wet	6.67		76.4	30-130					
Surrogate: Phenol-d6	*5.15*		mg/Kg wet	6.67		77.3	30-130					
Surrogate: Nitrobenzene-d5	*2.76*		mg/Kg wet	3.33		82.7	30-130					
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.33		68.7	30-130					
Surrogate: 2,4,6-Tribromophenol	*6.76*		mg/Kg wet	6.67		101	30-130					
Surrogate: Terphenyl-d14	*2.84*		mg/Kg wet	3.33		85.1	30-130					

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014877 - SW-846 3546										
Blank (B014877-BLK1)				Prepared: 06/14/10 Analyzed: 06/16/10						
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0030	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0030	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0080	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0080	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0080	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0080	mg/Kg wet							
Dieldrin	ND	0.0080	mg/Kg wet							
Dieldrin [2C]	ND	0.0080	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.180*		mg/Kg wet	0.200		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg wet	0.200		99.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.213*		mg/Kg wet	0.200		107	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014877 - SW-846 3546										
LCS (B014877-BS1)				Prepared: 06/14/10 Analyzed: 06/16/10						
Aldrin	0.019	0.0050	mg/Kg wet	0.0200		93.6	40-140			
Aldrin [2C]	0.021	0.0050	mg/Kg wet	0.0200		103	40-140			
alpha-BHC	0.020	0.0050	mg/Kg wet	0.0200		98.2	40-140			
alpha-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		102	40-140			
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		93.1	40-140			
beta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.4	40-140			
delta-BHC	0.016	0.0050	mg/Kg wet	0.0200		80.5	40-140			
delta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		84.7	40-140			
gamma-BHC (Lindane)	0.020	0.0030	mg/Kg wet	0.0200		99.0	40-140			
gamma-BHC (Lindane) [2C]	0.020	0.0030	mg/Kg wet	0.0200		102	40-140			
4,4'-DDD	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
4,4'-DDD [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.7	40-140			
4,4'-DDE	0.020	0.0040	mg/Kg wet	0.0200		100	40-140			
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		96.0	40-140			
4,4'-DDT	0.022	0.0080	mg/Kg wet	0.0200		110	40-140			
4,4'-DDT [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.0	40-140			
Dieldrin	0.020	0.0080	mg/Kg wet	0.0200		102	40-140			
Dieldrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.5	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		95.5	40-140			
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.2	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		102	40-140			
Endosulfan II [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.8	40-140			
Endosulfan Sulfate	0.023	0.0080	mg/Kg wet	0.0200		116	40-140			
Endosulfan Sulfate [2C]	0.018	0.0080	mg/Kg wet	0.0200		90.0	40-140			
Endrin	0.022	0.0080	mg/Kg wet	0.0200		108	40-140			
Endrin [2C]	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
Endrin Ketone	0.022	0.0080	mg/Kg wet	0.0200		108	40-140			
Endrin Ketone [2C]	0.018	0.0080	mg/Kg wet	0.0200		91.5	40-140			
Heptachlor	0.019	0.0050	mg/Kg wet	0.0200		96.7	40-140			
Heptachlor [2C]	0.021	0.0050	mg/Kg wet	0.0200		103	40-140			
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		98.7	40-140			
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.4	40-140			
Hexachlorobenzene	0.019	0.0050	mg/Kg wet	0.0200		96.8	40-140			
Hexachlorobenzene [2C]	0.020	0.0050	mg/Kg wet	0.0200		97.6	40-140			
Methoxychlor	0.026	0.050	mg/Kg wet	0.0200		129	40-140			
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		102	40-140			
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			
LCS Dup (B014877-BSD1)				Prepared: 06/14/10 Analyzed: 06/16/10						
Aldrin	0.020	0.0050	mg/Kg wet	0.0200		101	40-140	7.46	30	
Aldrin [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140	7.49	30	
alpha-BHC	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	8.40	30	
alpha-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140	9.20	30	
beta-BHC	0.021	0.0050	mg/Kg wet	0.0200		103	40-140	9.86	30	
beta-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	10.8	30	
delta-BHC	0.017	0.0050	mg/Kg wet	0.0200		87.4	40-140	8.22	30	
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.5	40-140	7.72	30	
gamma-BHC (Lindane)	0.021	0.0030	mg/Kg wet	0.0200		107	40-140	7.59	30	
gamma-BHC (Lindane) [2C]	0.022	0.0030	mg/Kg wet	0.0200		110	40-140	7.31	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014877 - SW-846 3546										
LCS Dup (B014877-BSD1)				Prepared: 06/14/10 Analyzed: 06/16/10						
4,4'-DDD	0.022	0.0080	mg/Kg wet	0.0200		108	40-140	7.39	30	
4,4'-DDD [2C]	0.020	0.0080	mg/Kg wet	0.0200		100	40-140	7.94	30	
4,4'-DDE	0.022	0.0040	mg/Kg wet	0.0200		108	40-140	7.47	30	
4,4'-DDE [2C]	0.021	0.0040	mg/Kg wet	0.0200		104	40-140	7.88	30	
4,4'-DDT	0.024	0.0080	mg/Kg wet	0.0200		118	40-140	6.96	30	
4,4'-DDT [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140	8.18	30	
Dieldrin	0.022	0.0080	mg/Kg wet	0.0200		110	40-140	7.13	30	
Dieldrin [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140	7.77	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		102	40-140	6.88	30	
Endosulfan I [2C]	0.021	0.0050	mg/Kg wet	0.0200		104	40-140	7.52	30	
Endosulfan II	0.022	0.0080	mg/Kg wet	0.0200		109	40-140	6.87	30	
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		102	40-140	8.24	30	
Endosulfan Sulfate	0.025	0.0080	mg/Kg wet	0.0200		125	40-140	7.82	30	
Endosulfan Sulfate [2C]	0.020	0.0080	mg/Kg wet	0.0200		97.8	40-140	8.22	30	
Endrin	0.023	0.0080	mg/Kg wet	0.0200		114	40-140	5.59	30	
Endrin [2C]	0.022	0.0080	mg/Kg wet	0.0200		108	40-140	7.20	30	
Endrin Ketone	0.023	0.0080	mg/Kg wet	0.0200		116	40-140	7.10	30	
Endrin Ketone [2C]	0.020	0.0080	mg/Kg wet	0.0200		100	40-140	9.15	30	
Heptachlor	0.021	0.0050	mg/Kg wet	0.0200		104	40-140	7.56	30	
Heptachlor [2C]	0.022	0.0050	mg/Kg wet	0.0200		112	40-140	8.34	30	
Heptachlor Epoxide	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	7.41	30	
Heptachlor Epoxide [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	7.58	30	
Hexachlorobenzene	0.021	0.0050	mg/Kg wet	0.0200		105	40-140	7.92	30	
Hexachlorobenzene [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	8.05	30	
Methoxychlor	0.028	0.050	mg/Kg wet	0.0200		138	40-140	6.56	30	
Methoxychlor [2C]	0.022	0.050	mg/Kg wet	0.0200		112	40-140	8.93	30	
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg wet	0.200		108	30-150			

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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 B014878 - SW-846 3546										
Blank (B014878-BLK1)				Prepared: 06/14/10 Analyzed: 06/16/10						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.258*		mg/Kg wet	0.200		129	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.247*		mg/Kg wet	0.200		124	30-150			
LCS (B014878-BS1)				Prepared: 06/14/10 Analyzed: 06/17/10						
Aroclor-1016	0.052	0.020	mg/Kg wet	0.0500		105	40-140			
Aroclor-1016 [2C]	0.055	0.020	mg/Kg wet	0.0500		111	40-140			
Aroclor-1260	0.057	0.020	mg/Kg wet	0.0500		114	40-140			
Aroclor-1260 [2C]	0.055	0.020	mg/Kg wet	0.0500		110	40-140			
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.233*		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.234*		mg/Kg wet	0.200		117	30-150			
LCS Dup (B014878-BSD1)				Prepared: 06/14/10 Analyzed: 06/17/10						
Aroclor-1016	0.055	0.020	mg/Kg wet	0.0500		110	40-140	4.45	30	
Aroclor-1016 [2C]	0.059	0.020	mg/Kg wet	0.0500		118	40-140	5.71	30	
Aroclor-1260	0.054	0.020	mg/Kg wet	0.0500		107	40-140	5.57	30	
Aroclor-1260 [2C]	0.061	0.020	mg/Kg wet	0.0500		122	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.239*		mg/Kg wet	0.200		119	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.245*		mg/Kg wet	0.200		123	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014881 - SW-846 3546										
Blank (B014881-BLK1)				Prepared: 06/14/10 Analyzed: 06/16/10						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*4.24*		mg/Kg wet	5.00		84.7	40-140			
Surrogate: o-Terphenyl (OTP)	*4.88*		mg/Kg wet	5.00		97.5	40-140			
Surrogate: 2-Bromonaphthalene	*5.68*		mg/Kg wet	5.00		114	40-140			
Surrogate: 2-Fluorobiphenyl	*5.55*		mg/Kg wet	5.00		111	40-140			
LCS (B014881-BS1)				Prepared: 06/14/10 Analyzed: 06/16/10						
C9-C18 Aliphatics	25.5	10	mg/Kg wet	30.0		84.9	40-140			
C19-C36 Aliphatics	41.2	10	mg/Kg wet	40.0		103	40-140			
Unadjusted C11-C22 Aromatics	95.2	10	mg/Kg wet	85.0		112	40-140			
Acenaphthene	4.88	0.10	mg/Kg wet	5.00		97.7	40-140			
Acenaphthylene	4.98	0.10	mg/Kg wet	5.00		99.6	40-140			
Anthracene	5.30	0.10	mg/Kg wet	5.00		106	40-140			
Benzo(a)anthracene	5.56	0.10	mg/Kg wet	5.00		111	40-140			
Benzo(a)pyrene	5.21	0.10	mg/Kg wet	5.00		104	40-140			
Benzo(b)fluoranthene	5.50	0.10	mg/Kg wet	5.00		110	40-140			
Benzo(g,h,i)perylene	5.34	0.10	mg/Kg wet	5.00		107	40-140			
Benzo(k)fluoranthene	5.38	0.10	mg/Kg wet	5.00		108	40-140			
Chrysene	5.22	0.10	mg/Kg wet	5.00		104	40-140			
Dibenz(a,h)anthracene	5.32	0.10	mg/Kg wet	5.00		106	40-140			
Fluoranthene	5.27	0.10	mg/Kg wet	5.00		105	40-140			
Fluorene	5.13	0.10	mg/Kg wet	5.00		103	40-140			
Indeno(1,2,3-cd)pyrene	5.30	0.10	mg/Kg wet	5.00		106	40-140			
2-Methylnaphthalene	4.85	0.10	mg/Kg wet	5.00		96.9	40-140			
Naphthalene	4.55	0.10	mg/Kg wet	5.00		90.9	40-140			
Phenanthrene	5.21	0.10	mg/Kg wet	5.00		104	40-140			
Pyrene	5.47	0.10	mg/Kg wet	5.00		109	40-140			
n-Nonane	2.50	0.10	mg/Kg wet	5.00		49.9	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.28*		mg/Kg wet	5.00		85.7	40-140			
Surrogate: o-Terphenyl (OTP)	*5.33*		mg/Kg wet	5.00		107	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014881 - SW-846 3546										
LCS (B014881-BS1)				Prepared: 06/14/10 Analyzed: 06/16/10						
Surrogate: 2-Bromonaphthalene	*5.95*		mg/Kg wet	5.00		119	40-140			
Surrogate: 2-Fluorobiphenyl	*5.79*		mg/Kg wet	5.00		116	40-140			
LCS Dup (B014881-BSD1)				Prepared: 06/14/10 Analyzed: 06/16/10						
C9-C18 Aliphatics	25.8	10	mg/Kg wet	30.0		86.1	40-140	1.38	25	
C19-C36 Aliphatics	41.5	10	mg/Kg wet	40.0		104	40-140	0.771	25	
Unadjusted C11-C22 Aromatics	94.0	10	mg/Kg wet	85.0		111	40-140	1.21	25	
Acenaphthene	4.80	0.10	mg/Kg wet	5.00		95.9	40-140	1.82	25	
Acenaphthylene	4.90	0.10	mg/Kg wet	5.00		98.0	40-140	1.62	25	
Anthracene	5.15	0.10	mg/Kg wet	5.00		103	40-140	2.85	25	
Benzo(a)anthracene	5.45	0.10	mg/Kg wet	5.00		109	40-140	1.99	25	
Benzo(a)pyrene	5.10	0.10	mg/Kg wet	5.00		102	40-140	2.27	25	
Benzo(b)fluoranthene	5.39	0.10	mg/Kg wet	5.00		108	40-140	1.94	25	
Benzo(g,h,i)perylene	5.17	0.10	mg/Kg wet	5.00		103	40-140	3.27	25	
Benzo(k)fluoranthene	5.26	0.10	mg/Kg wet	5.00		105	40-140	2.23	25	
Chrysene	5.10	0.10	mg/Kg wet	5.00		102	40-140	2.20	25	
Dibenz(a,h)anthracene	5.15	0.10	mg/Kg wet	5.00		103	40-140	3.24	25	
Fluoranthene	5.15	0.10	mg/Kg wet	5.00		103	40-140	2.43	25	
Fluorene	4.98	0.10	mg/Kg wet	5.00		99.6	40-140	2.86	25	
Indeno(1,2,3-cd)pyrene	5.15	0.10	mg/Kg wet	5.00		103	40-140	2.87	25	
2-Methylnaphthalene	4.78	0.10	mg/Kg wet	5.00		95.6	40-140	1.41	25	
Naphthalene	4.51	0.10	mg/Kg wet	5.00		90.3	40-140	0.713	25	
Phenanthrene	5.07	0.10	mg/Kg wet	5.00		101	40-140	2.68	25	
Pyrene	5.34	0.10	mg/Kg wet	5.00		107	40-140	2.34	25	
n-Nonane	2.54	0.10	mg/Kg wet	5.00		50.8	30-140	1.80	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.18*		mg/Kg wet	5.00		83.5	40-140			
Surrogate: o-Terphenyl (OTP)	*5.11*		mg/Kg wet	5.00		102	40-140			
Surrogate: 2-Bromonaphthalene	*5.70*		mg/Kg wet	5.00		114	40-140			
Surrogate: 2-Fluorobiphenyl	*5.56*		mg/Kg wet	5.00		111	40-140			
Matrix Spike (B014881-MS1)		**Source: 10F0335-01**		Prepared: 06/14/10 Analyzed: 06/16/10						
C9-C18 Aliphatics	28.3	22	mg/Kg dry	33.3	6.64	65.1	40-140			
C19-C36 Aliphatics	55.9	22	mg/Kg dry	44.4	17.6	86.4	40-140			
Unadjusted C11-C22 Aromatics	126	22	mg/Kg dry	94.3	32.9	98.4	40-140			
Acenaphthene	4.49	0.22	mg/Kg dry	5.55	0.00	80.9	40-140			
Acenaphthylene	4.60	0.22	mg/Kg dry	5.55	0.00	82.9	40-140			
Anthracene	4.81	0.22	mg/Kg dry	5.55	0.00	86.6	40-140			
Benzo(a)anthracene	5.54	0.22	mg/Kg dry	5.55	0.480	91.2	40-140			
Benzo(a)pyrene	5.25	0.22	mg/Kg dry	5.55	0.557	84.6	40-140			
Benzo(b)fluoranthene	5.67	0.22	mg/Kg dry	5.55	0.727	89.0	40-140			
Benzo(g,h,i)perylene	5.21	0.22	mg/Kg dry	5.55	0.451	85.8	40-140			
Benzo(k)fluoranthene	5.10	0.22	mg/Kg dry	5.55	0.255	87.2	40-140			
Chrysene	5.26	0.22	mg/Kg dry	5.55	0.529	85.2	40-140			
Dibenz(a,h)anthracene	4.74	0.22	mg/Kg dry	5.55	0.00	85.4	40-140			
Fluoranthene	5.77	0.22	mg/Kg dry	5.55	0.858	88.5	40-140			
Fluorene	4.77	0.22	mg/Kg dry	5.55	0.00	85.9	40-140			
Indeno(1,2,3-cd)pyrene	5.08	0.22	mg/Kg dry	5.55	0.352	85.2	40-140			
2-Methylnaphthalene	4.44	0.22	mg/Kg dry	5.55	0.00	79.9	40-140			
Naphthalene	4.16	0.22	mg/Kg dry	5.55	0.00	74.9	40-140			
Phenanthrene	5.30	0.22	mg/Kg dry	5.55	0.380	88.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014881 - SW-846 3546										
Matrix Spike (B014881-MS1)	**Source: 10F0335-01**			Prepared: 06/14/10 Analyzed: 06/16/10						
Pyrene	6.00	0.22	mg/Kg dry	5.55	0.905	91.8	40-140			
n-Nonane	2.52	0.22	mg/Kg dry	5.55	0.00	45.5	30-140			
Surrogate: Chlorooctadecane (COD)	*3.42*		mg/Kg dry	5.55		61.7	40-140			
Surrogate: o-Terphenyl (OTP)	*4.65*		mg/Kg dry	5.55		83.7	40-140			
Surrogate: 2-Bromonaphthalene	*6.12*		mg/Kg dry	5.55		110	40-140			
Surrogate: 2-Fluorobiphenyl	*5.95*		mg/Kg dry	5.55		107	40-140			
Matrix Spike Dup (B014881-MSD1)	**Source: 10F0335-01**			Prepared: 06/14/10 Analyzed: 06/17/10						
C9-C18 Aliphatics	29.7	22	mg/Kg dry	33.3	6.64	69.3	40-140	4.83	50	
C19-C36 Aliphatics	55.1	22	mg/Kg dry	44.4	17.6	84.6	40-140	1.49	50	
Unadjusted C11-C22 Aromatics	130	22	mg/Kg dry	94.3	32.9	103	40-140	3.50	50	
Acenaphthene	5.10	0.22	mg/Kg dry	5.55	0.00	91.8	40-140	12.7	50	
Acenaphthylene	5.28	0.22	mg/Kg dry	5.55	0.00	95.2	40-140	13.8	50	
Anthracene	5.47	0.22	mg/Kg dry	5.55	0.00	98.6	40-140	12.9	50	
Benzo(a)anthracene	6.24	0.22	mg/Kg dry	5.55	0.480	104	40-140	12.0	50	
Benzo(a)pyrene	5.96	0.22	mg/Kg dry	5.55	0.557	97.3	40-140	12.5	50	
Benzo(b)fluoranthene	6.41	0.22	mg/Kg dry	5.55	0.727	102	40-140	12.3	50	
Benzo(g,h,i)perylene	5.85	0.22	mg/Kg dry	5.55	0.451	97.3	40-140	11.5	50	
Benzo(k)fluoranthene	5.82	0.22	mg/Kg dry	5.55	0.255	100	40-140	13.2	50	
Chrysene	5.92	0.22	mg/Kg dry	5.55	0.529	97.2	40-140	11.9	50	
Dibenz(a,h)anthracene	5.46	0.22	mg/Kg dry	5.55	0.00	98.4	40-140	14.1	50	
Fluoranthene	6.42	0.22	mg/Kg dry	5.55	0.858	100	40-140	10.6	50	
Fluorene	5.42	0.22	mg/Kg dry	5.55	0.00	97.6	40-140	12.8	50	
Indeno(1,2,3-cd)pyrene	5.82	0.22	mg/Kg dry	5.55	0.352	98.5	40-140	13.6	50	
2-Methylnaphthalene	5.04	0.22	mg/Kg dry	5.55	0.00	90.9	40-140	12.8	50	
Naphthalene	4.66	0.22	mg/Kg dry	5.55	0.00	83.9	40-140	11.4	50	
Phenanthrene	5.76	0.22	mg/Kg dry	5.55	0.380	97.0	40-140	8.34	50	
Pyrene	6.67	0.22	mg/Kg dry	5.55	0.905	104	40-140	10.5	50	
n-Nonane	2.46	0.22	mg/Kg dry	5.55	0.00	44.2	30-140	2.72	50	
Surrogate: Chlorooctadecane (COD)	*3.77*		mg/Kg dry	5.55		67.8	40-140			
Surrogate: o-Terphenyl (OTP)	*5.37*		mg/Kg dry	5.55		96.8	40-140			
Surrogate: 2-Bromonaphthalene	*6.17*		mg/Kg dry	5.55		111	40-140			
Surrogate: 2-Fluorobiphenyl	*6.00*		mg/Kg dry	5.55		108	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014886 - MA VPH										
Blank (B014886-BLK1)				Prepared & Analyzed: 06/14/10						
Unadjusted C5-C8 Aliphatics	ND	11	mg/Kg wet							
C5-C8 Aliphatics	ND	11	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	11	mg/Kg wet							
C9-C12 Aliphatics	ND	11	mg/Kg wet							
C9-C10 Aromatics	ND	11	mg/Kg wet							
Benzene	ND	0.053	mg/Kg wet							
Butylcyclohexane	ND	0.053	mg/Kg wet							
Decane	ND	0.053	mg/Kg wet							
Ethylbenzene	ND	0.053	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.053	mg/Kg wet							
2-Methylpentane	ND	0.053	mg/Kg wet							
Naphthalene	ND	0.53	mg/Kg wet							
Nonane	ND	0.053	mg/Kg wet							
Pentane	ND	0.053	mg/Kg wet							
Toluene	ND	0.053	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.053	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.053	mg/Kg wet							
m+p Xylene	ND	0.11	mg/Kg wet							
o-Xylene	ND	0.053	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.76*		mg/Kg wet	3.33		82.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.77*		mg/Kg wet	3.33		83.0	70-130			
LCS (B014886-BS1)				Prepared & Analyzed: 06/14/10						
Benzene	6.44	0.057	mg/Kg wet	6.67		96.6	70-130			
Butylcyclohexane	4.71	0.057	mg/Kg wet	6.67		70.6	70-130			
Decane	4.95	0.057	mg/Kg wet	6.67		74.3	70-130			
Ethylbenzene	6.17	0.057	mg/Kg wet	6.67		92.5	70-130			
Methyl tert-Butyl Ether (MTBE)	6.22	0.057	mg/Kg wet	6.67		93.3	70-130			
2-Methylpentane	5.47	0.057	mg/Kg wet	6.67		82.1	70-130			
Naphthalene	5.67	0.57	mg/Kg wet	6.67		85.0	70-130			
Nonane	4.80	0.057	mg/Kg wet	6.67		72.1	30-130			
Pentane	5.83	0.057	mg/Kg wet	6.67		87.4	70-130			
Toluene	6.36	0.057	mg/Kg wet	6.67		95.4	70-130			
1,2,4-Trimethylbenzene	5.84	0.057	mg/Kg wet	6.67		87.5	70-130			
2,2,4-Trimethylpentane	5.29	0.057	mg/Kg wet	6.67		79.4	70-130			
m+p Xylene	12.4	0.11	mg/Kg wet	13.3		93.0	70-130			
o-Xylene	6.38	0.057	mg/Kg wet	6.67		95.6	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*3.18*		mg/Kg wet	3.33		95.3	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*3.12*		mg/Kg wet	3.33		93.6	70-130			
LCS Dup (B014886-BSD1)				Prepared & Analyzed: 06/14/10						
Benzene	6.27	0.057	mg/Kg wet	6.67		94.1	70-130	2.62	25	
Butylcyclohexane	4.77	0.057	mg/Kg wet	6.67		71.5	70-130	1.28	25	
Decane	5.01	0.057	mg/Kg wet	6.67		75.1	70-130	1.08	25	
Ethylbenzene	6.08	0.057	mg/Kg wet	6.67		91.2	70-130	1.36	25	
Methyl tert-Butyl Ether (MTBE)	6.07	0.057	mg/Kg wet	6.67		91.0	70-130	2.54	25	
2-Methylpentane	5.26	0.057	mg/Kg wet	6.67		78.9	70-130	3.97	25	
Naphthalene	6.25	0.57	mg/Kg wet	6.67		93.7	70-130	9.69	25	
Nonane	4.90	0.057	mg/Kg wet	6.67		73.5	30-130	2.02	25	
Pentane	5.73	0.057	mg/Kg wet	6.67		86.0	70-130	1.70	25	
Toluene	6.24	0.057	mg/Kg wet	6.67		93.6	70-130	1.87	25	
1,2,4-Trimethylbenzene	5.81	0.057	mg/Kg wet	6.67		87.1	70-130	0.456	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014886 - MA VPH										
LCS Dup (B014886-BSD1)				Prepared & Analyzed: 06/14/10						
2,2,4-Trimethylpentane	5.39	0.057	mg/Kg wet	6.67		80.8	70-130	1.77	25	
m+p Xylene	12.3	0.11	mg/Kg wet	13.3		92.1	70-130	1.05	25	
o-Xylene	6.31	0.057	mg/Kg wet	6.67		94.7	70-130	1.01	25	
Surrogate: 2,5-Dibromotoluene (FID)	*3.59*		mg/Kg wet	3.33		108	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*3.45*		mg/Kg wet	3.33		103	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014875 - SW-846 3050B										
Blank (B014875-BLK1)				Prepared & Analyzed: 06/14/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B014875-BS1)				Prepared & Analyzed: 06/14/10						
Arsenic	113	5.0	mg/Kg wet	107		105	81.6-118.4			
Barium	350	5.0	mg/Kg wet	331		106	80.7-119.3			
Cadmium	250	0.50	mg/Kg wet	244		102	82.4-117.6			
Chromium	84.9	1.0	mg/Kg wet	80.6		105	78.8-120.7			
Lead	103	1.5	mg/Kg wet	107		95.8	79.1-120.3			
Selenium	187	10	mg/Kg wet	177		105	78.4-120.9			
Silver	44.2	1.0	mg/Kg wet	46.2		95.7	66.2-133.6			
LCS (B014875-BS2)				Prepared & Analyzed: 06/14/10						
Lead	0.781	0.75	mg/Kg wet	0.747		105	79.1-120.3			
LCS Dup (B014875-BSD1)				Prepared & Analyzed: 06/14/10						
Arsenic	110	5.0	mg/Kg wet	107		103	81.6-118.4	2.71	30	
Barium	341	5.0	mg/Kg wet	331		103	80.7-119.3	2.70	30	
Cadmium	242	0.50	mg/Kg wet	244		99.2	82.4-117.6	3.13	30	
Chromium	81.7	1.0	mg/Kg wet	80.5		101	78.8-120.7	3.78	30	
Lead	104	1.5	mg/Kg wet	107		96.9	79.1-120.3	1.02	30	
Selenium	183	10	mg/Kg wet	177		103	78.4-120.9	2.07	30	
Silver	43.6	1.0	mg/Kg wet	46.2		94.5	66.2-133.6	1.34	30	
Batch B014890 - SW-846 7471A										
Blank (B014890-BLK1)				Prepared: 06/14/10 Analyzed: 06/15/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B014890-BS1)				Prepared: 06/14/10 Analyzed: 06/15/10						
Mercury	1.17	0.025	mg/Kg wet	0.990		118	66-132			
LCS Dup (B014890-BSD1)				Prepared: 06/14/10 Analyzed: 06/15/10						
Mercury	1.11	0.025	mg/Kg wet	0.919		121	66-132	5.64	30	

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BREAKDOWN REPORT

Lab Sample ID: S000372-PEM1 **Analyzed:** 06/16/2010

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.00
Endrin [1]	2.60

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.00
Endrin [2]	1.47

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA
C5-C8 Aliphatics	CT,NC,WA
Unadjusted C9-C12 Aliphatics	CT,NC,WA
C9-C12 Aliphatics	CT,NC,WA
C9-C10 Aromatics	CT,NC,WA
Benzene	CT,NC,WA
Ethylbenzene	CT,NC,WA
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA
Naphthalene	CT,NC,WA
Toluene	CT,NC,WA
m+p Xylene	CT,NC,WA
o-Xylene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 8081A in Product/Solid	

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Product/Solid	
Aldrin	CT,NC,NH,NY
Aldrin [2C]	CT,NC,NH,NY
alpha-BHC	CT,NC,NH,NY
alpha-BHC [2C]	CT,NC,NH,NY
beta-BHC	CT,NC,NH,NY
beta-BHC [2C]	CT,NC,NH,NY
delta-BHC	CT,NC,NH,NY
delta-BHC [2C]	CT,NC,NH,NY
gamma-BHC (Lindane)	CT,NC,NH,NY
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY
Chlordane	CT,NC,NH,NY
Chlordane [2C]	CT,NC,NH,NY
4,4'-DDD	CT,NC,NH,NY
4,4'-DDD [2C]	CT,NC,NH,NY
4,4'-DDE	CT,NC,NH,NY
4,4'-DDE [2C]	CT,NC,NH,NY
4,4'-DDT	CT,NC,NH,NY
4,4'-DDT [2C]	CT,NC,NH,NY
Dieldrin	CT,NC,NH,NY
Dieldrin [2C]	CT,NC,NH,NY
Endosulfan I	CT,NC,NH,NY
Endosulfan I [2C]	CT,NC,NH,NY
Endosulfan II	CT,NC,NH,NY
Endosulfan II [2C]	CT,NC,NH,NY
Endosulfan Sulfate	CT,NC,NH,NY
Endosulfan Sulfate [2C]	CT,NC,NH,NY
Endrin	CT,NC,NH,NY
Endrin [2C]	CT,NC,NH,NY
Heptachlor	CT,NC,NH,NY
Heptachlor [2C]	CT,NC,NH,NY
Heptachlor Epoxide	CT,NC,NH,NY
Heptachlor Epoxide [2C]	CT,NC,NH,NY
Hexachlorobenzene	NH
Hexachlorobenzene [2C]	NH
Methoxychlor	CT,NC,NH,NY
Methoxychlor [2C]	CT,NC,NH,NY
SW-846 8081A in Soil	
Aldrin	CT,NC,NH,NY
Aldrin [2C]	CT,NC,NH,NY
alpha-BHC	CT,NC,NH,NY
alpha-BHC [2C]	CT,NC,NH,NY
beta-BHC	CT,NC,NH,NY
beta-BHC [2C]	CT,NC,NH,NY
delta-BHC	CT,NC,NH,NY
delta-BHC [2C]	CT,NC,NH,NY
gamma-BHC (Lindane)	CT,NC,NH,NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Soil	
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY
Chlordane	CT,NC,NH,NY
Chlordane [2C]	CT,NC,NH,NY
4,4'-DDD	CT,NC,NH,NY
4,4'-DDD [2C]	CT,NC,NH,NY
4,4'-DDE	CT,NC,NH,NY
4,4'-DDE [2C]	CT,NC,NH,NY
4,4'-DDT	CT,NC,NH,NY
4,4'-DDT [2C]	CT,NC,NH,NY
Dieldrin	CT,NC,NH,NY
Dieldrin [2C]	CT,NC,NH,NY
Endosulfan I	CT,NC,NH,NY
Endosulfan I [2C]	CT,NC,NH,NY
Endosulfan II	CT,NC,NH,NY
Endosulfan II [2C]	CT,NC,NH,NY
Endosulfan Sulfate	CT,NC,NH,NY
Endosulfan Sulfate [2C]	CT,NC,NH,NY
Endrin	CT,NC,NH,NY
Endrin [2C]	CT,NC,NH,NY
Heptachlor	CT,NC,NH,NY
Heptachlor [2C]	CT,NC,NH,NY
Heptachlor Epoxide	CT,NC,NH,NY
Heptachlor Epoxide [2C]	CT,NC,NH,NY
Hexachlorobenzene	NH
Hexachlorobenzene [2C]	NH
Methoxychlor	CT,NC,NH,NY
Methoxychlor [2C]	CT,NC,NH,NY
SW-846 8082 in Soil	
Aroclor-1016	CT,NH,NY
Aroclor-1016 [2C]	CT,NH,NY
Aroclor-1221	CT,NH,NY
Aroclor-1221 [2C]	CT,NH,NY
Aroclor-1232	CT,NH,NY
Aroclor-1232 [2C]	CT,NH,NY
Aroclor-1242	CT,NH,NY
Aroclor-1242 [2C]	CT,NH,NY
Aroclor-1248	CT,NH,NY
Aroclor-1248 [2C]	CT,NH,NY
Aroclor-1254	CT,NH,NY
Aroclor-1254 [2C]	CT,NH,NY
Aroclor-1260	CT,NH,NY
Aroclor-1260 [2C]	CT,NH,NY
SW-846 8260B in Soil	
Acetone	CT,NH,NY
Benzene	CT,NH,NY
Bromobenzene	NH,NY

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260B in Soil	
Bromochloromethane	NH,NY
Bromodichloromethane	CT,NH,NY
Bromoform	CT,NH,NY
Bromomethane	CT,NH,NY
2-Butanone (MEK)	CT,NH,NY
n-Butylbenzene	CT,NH,NY
sec-Butylbenzene	CT,NH,NY
tert-Butylbenzene	CT,NH,NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY
Chlorobenzene	CT,NH,NY
Chlorodibromomethane	CT,NH,NY
Chloroethane	CT,NH,NY
Chloroform	CT,NH,NY
Chloromethane	CT,NH,NY
2-Chlorotoluene	CT,NH,NY
4-Chlorotoluene	CT,NH,NY
Dibromomethane	NH,NY
1,2-Dichlorobenzene	CT,NH,NY
1,3-Dichlorobenzene	CT,NH,NY
1,4-Dichlorobenzene	CT,NH,NY
Dichlorodifluoromethane (Freon 12)	NY
1,1-Dichloroethane	CT,NH,NY
1,2-Dichloroethane	CT,NH,NY
1,1-Dichloroethylene	CT,NH,NY
cis-1,2-Dichloroethylene	CT,NH,NY
trans-1,2-Dichloroethylene	CT,NH,NY
1,2-Dichloropropane	CT,NH,NY
1,3-Dichloropropane	NH,NY
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis-1,3-Dichloropropene	CT,NH,NY
trans-1,3-Dichloropropene	CT,NH,NY
Ethylbenzene	CT,NH,NY
Hexachlorobutadiene	NH,NY
2-Hexanone (MBK)	CT,NH,NY
Isopropylbenzene (Cumene)	CT,NH,NY
Methylene Chloride	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
Styrene	CT,NH,NY
1,1,1,2-Tetrachloroethane	CT,NH,NY
1,1,2,2-Tetrachloroethane	CT,NH,NY
Tetrachloroethylene	CT,NH,NY
Toluene	CT,NH,NY
1,2,4-Trichlorobenzene	NH,NY
1,1,1-Trichloroethane	CT,NH,NY

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260B in Soil	
1,1,2-Trichloroethane	CT,NH,NY
Trichloroethylene	CT,NH,NY
Trichlorofluoromethane (Freon 11)	CT,NH,NY
1,2,3-Trichloropropane	NH,NY
1,2,4-Trimethylbenzene	CT,NH,NY
1,3,5-Trimethylbenzene	CT,NH,NY
Vinyl Chloride	CT,NH,NY
m+p Xylene	CT,NH,NY
o-Xylene	CT,NH,NY
SW-846 8270C 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
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270C in Soil	
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	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2010
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

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Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

10F0335

Company Name: TRC
Address: 650 Suffolk Street
Lowell MA 01854
Attention: David Sullivan
Project Location: City of New Bedford
Sampled By: Jeff Saunders

Telephone: 978-656-3565
Project # 115058
Client PO# Unknown

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: ds.lliance resolutions.com
Format: ☒ PDF ☒ EXCEL ☒ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes 2007 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code
01	Med-Soil-1	6/11/10	0940	X		S	L

# of Containers	3	1	1	1	1	1	1
** Preservation	M/I	I	I	I	M	I	I
***Container Code	V	A	A	A	V	A	A

ANALYSIS REQUESTED

VOCs (8260B)	SVOCs (8270C)	PCBs (8082)	EPH (Mass DEP)	VPH (Mass DEP)	RCRA-8 Metals (6010B/7471A)	Pesticides/Herbicides (8081A/8151A)
X	X	X	X	X	X	X

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:
* VOCs & VPH bottles labeled on cap as pre-weighed
** SVOCs, PCBs, EPH, Metals & Pest/Herbs within three (3) amber bottles

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	6/11/10 1215
Received by: (signature)	Date/Time:
	6/11/10 1215
Relinquished by: (signature)	Date/Time:
	6-11-10 1700
Received by: (signature)	Date/Time:
Temp 3°C	6/11/10 17:00

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day
RUSH TRC standard
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: MCP S-1/S-2/S-3
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED

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39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: TRC MA RECEIVED BY: KA DATE: 6/11/10

1) Was the chain(s) of custody relinquished and signed? Yes No
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:
4) How were the samples received:
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
Were the samples received in Temperature Compliance of (2-6°C)? Yes No
Temperature °C by Temp blank 3°C Temperature °C by Temp gun _____
5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
6) Are there any samples "On Hold"? Yes No Stored where: _____
7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____
8) Location where samples are stored: 19/17

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	3	2 oz amber/clear jar	1
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	4	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 2
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:
06-11-10 17:09 OUT

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10F0335
Project Location:	City of New Bedford	MADEP RTN1[1]:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10F0335-01

Sample Matrices: Soil

MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C (X)	8081A (X)	VPH (X)	6020 ( )	9014M[2] ( )
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 (X)	8021B ( )	EPH (X)	7000 S[3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M -- SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S -- SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑ Yes	☐ No[1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑ Yes	☐ No[1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
D	VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	☑ Yes	☐ No[1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	☐ Yes	☑ No[1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:		Position:	Laboratory Manager
Printed Name:	Daren J. Damboragian	Date:	06/18/10

CON-TEST ANALYTICAL LABORATORY
39 Spruce Street
East Longmeadow, MA 01028-0591

Gilson Aspec XL4 Fractionation Check

Silica Gel Lot:	***S212-49***	Vendor:	**PHENOMENEX**
Frac Check Lot:	110309 PJG	Amount of DCM Collected:	5000 µL
Hexane Lot:	49190	Amount of Hexane Collected:	1800 µL
DCM Lot:	DA121		
Acetone Lot:	49170	Data File:	110409 D1104015/D1104016

Compound	Conc. (ppm)	Rec.	% Rec.	Limits
Naphthalene	50	34.608	69%	40-140
2-Methylnaphthalene	50	36.758	74%	40-140
Acenaphthalene	50	39.091	78%	40-140
Acenaphthene	50	37.140	74%	40-140
Fluorene	50	40.427	81%	40-140
Phenanthrene	50	42.167	84%	40-140
Anthracene	50	45.050	90%	40-140
o-Terphenyl (surr.)	50	41.987	84%	40-140
Fluoranthene	50	45.589	91%	40-140
Pyrene	50	47.349	95%	40-140
Benzo(a)anthracene	50	47.330	95%	40-140
Chrysene	50	48.575	97%	40-140
Benzo(b)fluoranthene	50	48.579	97%	40-140
Benzo(k)fluoranthene	50	47.442	95%	40-140
Benzo(a)pyrene	50	46.136	92%	40-140
Indeno(123cd)pyrene	50	45.379	91%	40-140
Dibenzo(ah)anthracene	50	46.058	92%	40-140
Benzo(ghi)perylene	50	46.349	93%	40-140
C9	50	26.223	52%	30-140
C10	50	31.746	63%	40-140
C12	50	34.423	69%	40-140
C14	50	39.479	79%	40-140
C16	50	43.992	88%	40-140
C18	50	47.810	96%	40-140
C19	50	48.635	97%	40-140
C20	50	50.586	101%	40-140
1-Chloro-octadecane (surr.)	50	38.510	77%	40-140
C22	50	51.286	103%	40-140
C24	50	51.409	103%	40-140
C26	50	53.537	107%	40-140
C28	50	52.366	105%	40-140
C30	50	52.300	105%	40-140
C36	50	51.587	103%	40-140
Fractionation Surrogates				
2-Fluorobiphenyl	50	48.999	98%	40-140
2-Bromonaphthalene	50	46.149	92%	40-140
Aliphatic bleed thru			% (<5%)	
Naphthalene	0		**0.000**	
2-Methylnaphthalene	0		**0.000**	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 28, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City of New Bedford
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10F0386

Enclosed are results of analyses for samples received by the laboratory on June 11, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 6/28/2010

PURCHASE ORDER NUMBER: 24747

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10F0386

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: City of New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Med-Soil-1	10F0386-01	Soil		SW-846 8151	MA M-MA-086/CT PH-0574/NY11148

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford | Sample Description: | Work Order: 10F0386

Date Received: 6/11/2010

Field Sample #: Med-Soil-1 | Sampled: 6/11/2010 09:40

Sample ID: 10F0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
2,4-DB	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
2,4,5-TP (Silvex)	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
2,4,5-T	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dalapon	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dicamba	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dichloroprop	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dinoseb	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
MCPA	ND	3600	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
MCPP	ND	3600	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
4-Nitrophenol	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Pentachlorophenol	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL

Surrogates	% Recovery	Recovery Limits	Flag	
DCMA	93	30-150		6/22/10 0:00

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2010
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

10F0384
10F0335

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: TRC
Address: 650 Suffolk Street
Lowell MA 01854
Attention: David Sullivan
Project Location: City of New Bedford
Sampled By: Jeff Saunders

Telephone: 978-656-3565
Project # 115058
Client PO# Unknown

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: ds.lliance resolutions.com
Format: ☒ PDF ☒ EXCEL ☒ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes 2007 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOCs (8260B)	SVOCs (8270C)	PCBs (8082)	EPH (MassDEP)	VPH (MassDEP)	RCRA-8 Metals (6010B / 7471A)	Pesticides/Herbicides (8081A / 8151A)
								3	1	1	1	1	1	1	1	1	1
								MI/DI	I	I	I	I	I	M	I	I	
								✓	A	A	A	A	A	V	A	A	
☒	01	Med-Soil-1	6/11/10	0940	X		S	L	X	X	X	X	X	X	X	X	X
☒	Put herbicide on its own report per Jeff. AA 6/15/10																

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:
* VOCs & VPH bottles labeled on cap as pre-weighed
** SVOCs, PCBs, EPH, Metals & Pest/Herbs within three (3) amber bottles

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	6/11/10 1215
Received by: (signature)	Date/Time:
	6/11/10 1216
Relinquished by: (signature)	Date/Time:
	6/11/10 1700
Received by: (signature)	Date/Time:
Temp 3°C	6/11/10 17.00

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day RUSH (TRC Standard)
☐ †24-Hr ☐ †48-Hr ☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: MCP S-1/S-2/S-3
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA Certified
WBE/DBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN

www.contestlabs.com

ANALYTICAL LABORATORY

01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: TRC mA RECEIVED BY: KA DATE: 6/11/10

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No

Temperature °C by Temp blank 3.C Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19/17

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	3	2 oz amber/clear jar	1
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	4	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

0 mL vials: # HCl _____ # Methanol 2

Bisulfate _____ # DI Water 2

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:
05-11-10 17:09 OUT

o all samples have the proper Acid pH: Yes No N/A _____

o all samples have the proper Base pH: Yes No N/A _____

Project Name:	Not Specified	**Lab Number:**	L1008855
Project Number:	Not Specified	**Report Date:**	06/28/10

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1008855
Report Date: 06/28/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

MCP Chlorinated Herbicides

In reference to question H:

The WG418757-2/3 LCS/LCSD recoveries, associated with L1008855-01, are below the acceptance criteria for Dinoseb (0%/8%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 06/28/10

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1008855
Report Date: 06/28/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 06/21/10 12:14
Analyst: SH

Extraction Method: EPA 8151A
Extraction Date: 06/18/10 14:20

Parameter	Result	Qualifier	Units	RL	MDL
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01 Batch: WG418757-1					
MCPP	ND		ug/kg	3200	--
MCPA	ND		ug/kg	3200	--
Dalapon	ND		ug/kg	32	--
Dicamba	ND		ug/kg	32	--
Dichloroprop	ND		ug/kg	32	--
2,4-D	ND		ug/kg	32	--
2,4-DB	ND		ug/kg	32	--
2,4,5-T	ND		ug/kg	32	--
2,4,5-TP (Silvex)	ND		ug/kg	32	--
Dinoseb	ND		ug/kg	32	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	111		30-150	B

Serial_No:06281013:29

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1008855
Report Date: 06/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Chlorinated Herbicides - Westborough Lab	Associated sample(s): 01		Batch: WG418757-2		WG418757-3			
MCPP	94		85		40-140	10		30
MCPA	65		62		40-140	5		30
Dalapon	74		61		40-140	19		30
Dicamba	106		100		40-140	6		30
Dichloroprop	89		82		40-140	8		30
2,4-D	108		110		40-140	2		30
2,4-DB	123		114		40-140	8		30
2,4,5-T	66		61		40-140	8		30
2,4,5-TP (Silvex)	92		83		40-140	10		30
Dinoseb	**0**	Q	**8**	Q	40-140	NC		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	103		86		30-150	A
DCAA	123		101		30-150	B

G. LOPES
CONSTRUCTION INC.

February 7, 2011

Cheryl Henlin
City Hall
Department of Environmental Stewardship, Room 304
133 William Street
New Bedford, MA 02740

RE: The Parker Street Waste Site

Dear Ms. Henlin:

G. Lopes Construction, Inc. continues to source their material for the above referenced project from the same source sampled as of January, 2010.

Please contact me directly at 508-813-1278 should you have further questions or concerns.

Sincerely,

Steve Goldstein, Sales Manager

490 Winthrop St. Taunton MA 02780 Ph: 508-824-4834 Fax: 508.880.3115 Toll Free: 800.562.2479 www.glopesconst.com

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 3, 2010

Jason Atwood
Triumvirate Environmental
Box 136, 63 Innerbelt Road
Sommerville, MA 02143

Project Location: New Bedford, MA
Client Job Number:
Project Number: 65002
Laboratory Work Order Number: 10A0386

Enclosed are results of analyses for samples received by the laboratory on January 20, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Triumvirate Environmental
Box 136, 63 Innerbelt Road
Sommerville, MA 02143
ATTN: Jason Atwood

REPORT DATE: 2/3/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 65002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10A0386

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
G Lopes Loam#1-3	10A0386-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010B	
				SW-846 7471A	
				SW-846 8081A	
				SW-846 8082	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11471
				SW-846 8260B	
				SW-846 8270C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 2/3/10 - Per clients request, EPH and VPH added to project.

MADEP-VPH-04-1.1

Qualifications:

Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.

Analyte & Samples(s) Qualified:

Naphthalene

B009942-BS1, B009942-BSD1

SW-846 8260B

Qualifications:

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:

Isopropylbenzene (Cumene), Trichlorofluoromethane (Freon 11)

B009696-BS1, B009696-BSD1

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 high side.

Analyte & Samples(s) Qualified:

Naphthalene

B009696-BS1, B009696-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethane

B009696-BSD1

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-Dichloroethane

10A0386-01[G Lopes Loam#1-3], B009696-BLK1, B009696-BS1, B009696-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

10A0386-01[G Lopes Loam#1-3], B009696-BLK1, B009696-BS1, B009696-BSD1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Trichlorofluoromethane (Freon 11)

B009696-BS1, B009696-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

10A0386-01[G Lopes Loam#1-3], B009696-BLK1, B009696-BS1, B009696-BSD1

SW-846 8270C

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Qualifications:

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:

2,4-Dinitrophenol

10A0386-01[G Lopes Loam#1-3], B009646-BLK1, B009646-BS1, B009646-BSD1

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:

Pentachlorophenol

B009646-BS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate

10A0386-01[G Lopes Loam#1-3], B009646-BLK1, B009646-BS1, B009646-BSD1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

SW-846 8260B

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 somewhere between 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, tert-butyl alcohol, acetone, 1,4-dioxane, vinyl chloride, chloromethane, dichlorodifluoromethane, 2-hexanone, naphthalene, methylene chloride, and tert-butylbenzene, bromomethane.

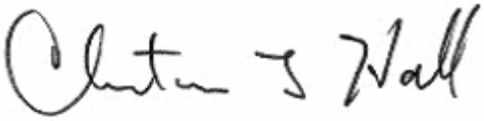
Duplicate laboratory fortified blank RPDs were all within control limits specified by the method except for “difficult analytes” where RPDs of 50% are used and/or unless otherwise listed in this narrative. Difficult analyte: 1,4-dioxane

SW-846 8270C

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 for soil LCS - limits between 10 and 180% depending on the compound(see QC summary report for limits): 3,3’-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for ”difficult analytes” where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative. Difficult analytes for soil RPDs: 3,3’-dichlorobenzidine, 4-nitrophenol, and aniline.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Christopher J. Hall
Project Chemist Supervisor

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.16	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Benzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromochloromethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromodichloromethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromoform	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromomethane	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2-Butanone (MEK)	ND	0.063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
n-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
sec-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
tert-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Carbon Disulfide	ND	0.0094	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Carbon Tetrachloride	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chloroform	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chloromethane	ND	0.016	mg/Kg dry	1	V-05	SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2-Chlorotoluene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
4-Chlorotoluene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Dibromomethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,3-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,4-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1-Dichloroethane	ND	0.0031	mg/Kg dry	1	R-05	SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1-Dichloroethylene	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
cis-1,2-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
trans-1,2-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,3-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2,2-Dichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1-Dichloropropene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
trans-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Diethyl Ether	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Diisopropyl Ether (DIPE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,4-Dioxane	ND	0.16	mg/Kg dry	1	V-16	SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Ethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2-Hexanone (MBK)	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Isopropylbenzene (Cumene)	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Methylene Chloride	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Naphthalene	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
n-Propylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Styrene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,1,2-Tetrachloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Tetrachloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Tetrahydrofuran	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Toluene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,4-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,1-Trichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,2-Trichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Trichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,3-Trichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,4-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Vinyl Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
m+p Xylene	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
o-Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	88.8	70-130		1/25/10 13:38
Toluene-d8	110	70-130		1/25/10 13:38
4-Bromofluorobenzene	99.4	70-130		1/25/10 13:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Butylbenzylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Dimethylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	L-04	SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Di-n-octylphthalate	ND	0.79	mg/Kg dry	1	R-05	SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Fluoranthene	0.32	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Indeno(1,2,3-cd)pyrene	0.20	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Phenanthrene	0.22	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	67.1	30-130		1/27/10 16:34
Phenol-d6	65.0	30-130		1/27/10 16:34
Nitrobenzene-d5	61.6	30-130		1/27/10 16:34
2-Fluorobiphenyl	62.2	30-130		1/27/10 16:34
2,4,6-Tribromophenol	72.8	30-130		1/27/10 16:34
Terphenyl-d14	56.7	30-130		1/27/10 16:34

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.024	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
gamma-BHC (Lindane) [1]	ND	0.0036	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
4,4'-DDD [2]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
4,4'-DDE [2]	0.013	0.0048	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
4,4'-DDT [2]	0.072	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Dieldrin [2]	ND	0.0024	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endosulfan II [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endosulfan sulfate [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endrin [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endrin aldehyde [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endrin ketone [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Hexachlorobenzene [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	58.5	30-150		1/25/10 15:39
Decachlorobiphenyl [2]	64.0	30-150		1/25/10 15:39
Tetrachloro-m-xylene [1]	60.7	30-150		1/25/10 15:39
Tetrachloro-m-xylene [2]	66.3	30-150		1/25/10 15:39

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	63.6	30-150		1/25/10 14:42
Decachlorobiphenyl [2]	62.4	30-150		1/25/10 14:42
Tetrachloro-m-xylene [1]	70.5	30-150		1/25/10 14:42
Tetrachloro-m-xylene [2]	69.9	30-150		1/25/10 14:42

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH as Diesel	88	50	mg/Kg dry	5		SW-846 8100 Modified	1/25/10	1/26/10 15:59	CJM

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
C19-C36 Aliphatics	ND	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Unadjusted C11-C22 Aromatics	16	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
C11-C22 Aromatics	ND	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Acenaphthene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Acenaphthylene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Anthracene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(a)anthracene	0.20	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(a)pyrene	0.19	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(b)fluoranthene	0.24	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(g,h,i)perylene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Chrysene	0.26	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Fluoranthene	0.35	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Fluorene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Indeno(1,2,3-cd)pyrene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Naphthalene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Phenanthrene	0.29	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Pyrene	0.48	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	43.1	40-140		2/3/10 14:38
o-Terphenyl (OTP)	77.3	40-140		2/3/10 14:38
2-Bromonaphthalene	99.2	40-140		2/3/10 14:38
2-Fluorobiphenyl	96.0	40-140		2/3/10 14:38

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.05

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	21	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
C5-C8 Aliphatics	ND	21	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Benzene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Ethylbenzene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Naphthalene	ND	0.70	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Toluene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
o-Xylene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	116	70-130		2/2/10 13:10
2,5-Dibromotoluene (PID)	115	70-130		2/2/10 13:10

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.4	2.9	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Barium	33	5.8	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Chromium	9.6	0.58	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Lead	58	0.87	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Mercury	0.070	0.029	mg/Kg dry	1		SW-846 7471A	1/25/10	1/25/10 14:13	MPF
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	1/22/10	1/25/10 8:38	NH

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Project Location: New Bedford, MA | Sample Description: | Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3 | Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
2,4-DB	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
2,4,5-TP (Silvex)	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
2,4,5-T	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dalapon	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dicamba	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dichloroprop	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dinoseb	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	43	40-140				1/25/10	0:00

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Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009945	20	2	02/02/10

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009942	15.8	18.5	02/02/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10A0386-01 [G Lopes Loam#1-3]	B009608	01/22/10

Prep Method: SW-846 3051-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009631	1.0255	50	01/22/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009658	0.1014	25	01/25/10

Prep Method: SW-846 3546-SW-846 8081A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009648	10	10	01/23/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009647	10	50	01/23/10

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009660	30	1	01/25/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009696	3.8	10	01/25/10

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009646	30	1	01/23/10

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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 B009696 - SW-846 5035										
Blank (B009696-BLK1)				Prepared & Analyzed: 01/25/10						
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							
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	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							V-05
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	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							R-05
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	0.020	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	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.020	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 B009696 - SW-846 5035											
Blank (B009696-BLK1)				Prepared & Analyzed: 01/25/10							
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	*0.0417*		mg/Kg wet	0.0500		83.4	70-130				
Surrogate: Toluene-d8	*0.0552*		mg/Kg wet	0.0500		110	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0528*		mg/Kg wet	0.0500		106	70-130				
LCS (B009696-BS1)				Prepared & Analyzed: 01/25/10							
Acetone	0.175	0.10	mg/Kg wet	0.200		87.3	70-160				†
tert-Amyl Methyl Ether (TAME)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130				
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130				
Bromobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130				
Bromochloromethane	0.0251	0.0020	mg/Kg wet	0.0200		125	70-130				
Bromodichloromethane	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130				
Bromoform	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130				
Bromomethane	0.0190	0.010	mg/Kg wet	0.0200		94.9	40-130				†
2-Butanone (MEK)	0.170	0.040	mg/Kg wet	0.200		85.2	70-160				†
n-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130				
sec-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130				
tert-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130				
Carbon Disulfide	0.0216	0.0060	mg/Kg wet	0.0200		108	70-130				
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130				
Chlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130				
Chlorodibromomethane	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130				
Chloroethane	0.0231	0.020	mg/Kg wet	0.0200		116	70-130				
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.7	70-130				
Chloromethane	0.0154	0.010	mg/Kg wet	0.0200		77.1	70-130			V-05	
2-Chlorotoluene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130				
4-Chlorotoluene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130				
1,2-Dibromoethane (EDB)	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130				
Dibromomethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130				
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130				
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130				
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	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 B009696 - SW-846 5035												
LCS (B009696-BS1)				Prepared & Analyzed: 01/25/10								
Dichlorodifluoromethane (Freon 12)	0.0265	0.020	mg/Kg wet	0.0200		132		40-160				†
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130			R-05	
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		90.2		70-130				
1,1-Dichloroethylene	0.0220	0.0040	mg/Kg wet	0.0200		110		70-130				
cis-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
trans-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130				
1,2-Dichloropropane	0.0233	0.0020	mg/Kg wet	0.0200		116		70-130				
1,3-Dichloropropane	0.0224	0.0010	mg/Kg wet	0.0200		112		70-130				
2,2-Dichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130				
1,1-Dichloropropene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130				
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130				
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105		70-130				
Diethyl Ether	0.0165	0.020	mg/Kg wet	0.0200		82.7		70-130				
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130				
1,4-Dioxane	0.288	0.10	mg/Kg wet	0.200		144		40-160			V-16	†
Ethylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114		70-130				
Hexachlorobutadiene	0.0258	0.0020	mg/Kg wet	0.0200		129		70-160				
2-Hexanone (MBK)	0.272	0.020	mg/Kg wet	0.200		136		70-160				†
Isopropylbenzene (Cumene)	0.0270	0.0020	mg/Kg wet	0.0200		**135**	*	70-130			L-02	
p-Isopropyltoluene (p-Cymene)	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130				
Methylene Chloride	0.0195	0.020	mg/Kg wet	0.0200		97.6		40-160				†
4-Methyl-2-pentanone (MIBK)	0.250	0.020	mg/Kg wet	0.200		125		70-160				†
Naphthalene	0.0347	0.020	mg/Kg wet	0.0200		**174**	*	40-130			L-06	†
n-Propylbenzene	0.0251	0.0020	mg/Kg wet	0.0200		125		70-130				
Styrene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130				
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1,2,2-Tetrachloroethane	0.0256	0.0010	mg/Kg wet	0.0200		128		70-130				
Tetrachloroethylene	0.0255	0.0020	mg/Kg wet	0.0200		127		70-130				
Tetrahydrofuran	0.0218	0.010	mg/Kg wet	0.0200		109		70-130				
Toluene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130				
1,2,3-Trichlorobenzene	0.0255	0.0020	mg/Kg wet	0.0200		127		70-130				
1,2,4-Trichlorobenzene	0.0242	0.0020	mg/Kg wet	0.0200		121		70-130				
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130				
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Trichlorofluoromethane (Freon 11)	0.0332	0.010	mg/Kg wet	0.0200		**166**	*	70-130			L-02, V-06	
1,2,3-Trichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130				
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4		70-130				
1,3,5-Trimethylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130				
Vinyl Chloride	0.0238	0.010	mg/Kg wet	0.0200		119		40-130				†
m+p Xylene	0.0453	0.0040	mg/Kg wet	0.0400		113		70-130				
o-Xylene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0408*		mg/Kg wet	0.0500		81.6		70-130				
Surrogate: Toluene-d8	*0.0551*		mg/Kg wet	0.0500		110		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0527*		mg/Kg wet	0.0500		105		70-130				

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 B009696 - SW-846 5035													
LCS Dup (B009696-BSD1)				Prepared & Analyzed: 01/25/10									
Acetone	0.164	0.10	mg/Kg wet	0.200		82.2		70-160	5.96		25		†
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.7		70-130	5.33		25		
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	0.376		25		
Bromobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	2.41		25		
Bromochloromethane	0.0254	0.0020	mg/Kg wet	0.0200		127		70-130	1.27		25		
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130	1.46		25		
Bromoform	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	6.61		25		
Bromomethane	0.0226	0.010	mg/Kg wet	0.0200		113		40-130	17.3		25		†
2-Butanone (MEK)	0.154	0.040	mg/Kg wet	0.200		77.0		70-160	10.2		25		†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130	1.83		25		
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130	2.19		25		
tert-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-160	0.0985		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0203	0.0010	mg/Kg wet	0.0200		102		70-130	3.10		25		
Carbon Disulfide	0.0228	0.0060	mg/Kg wet	0.0200		114		70-130	5.40		25		
Carbon Tetrachloride	0.0173	0.0020	mg/Kg wet	0.0200		86.3		70-130	7.47		25		
Chlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	2.82		25		
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104		70-130	2.64		25		
Chloroethane	0.0234	0.020	mg/Kg wet	0.0200		117		70-130	1.20		25		
Chloroform	0.0188	0.0040	mg/Kg wet	0.0200		94.0		70-130	2.83		25		
Chloromethane	0.0152	0.010	mg/Kg wet	0.0200		75.9		70-130	1.57		25	V-05	
2-Chlorotoluene	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130	1.92		25		
4-Chlorotoluene	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130	1.83		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	11.8		25		
1,2-Dibromoethane (EDB)	0.0226	0.0010	mg/Kg wet	0.0200		113		70-130	0.793		25		
Dibromomethane	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130	0.365		25		
1,2-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	0.384		25		
1,3-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	5.11		25		
1,4-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6		70-130	4.46		25		
Dichlorodifluoromethane (Freon 12)	0.0257	0.020	mg/Kg wet	0.0200		129		40-160	2.91		25		†
1,1-Dichloroethane	0.0133	0.0020	mg/Kg wet	0.0200		**66.3**	*	70-130	**46.6**	*	25	L-07A, R-05	
1,2-Dichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130	1.45		25		
1,1-Dichloroethylene	0.0222	0.0040	mg/Kg wet	0.0200		111		70-130	0.907		25		
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	1.05		25		
trans-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.7		70-130	2.07		25		
1,2-Dichloropropane	0.0233	0.0020	mg/Kg wet	0.0200		116		70-130	0.00		25		
1,3-Dichloropropane	0.0219	0.0010	mg/Kg wet	0.0200		110		70-130	2.08		25		
2,2-Dichloropropane	0.0159	0.0020	mg/Kg wet	0.0200		79.4		70-130	6.11		25		
1,1-Dichloropropene	0.0193	0.0020	mg/Kg wet	0.0200		96.3		70-130	3.77		25		
cis-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104		70-130	1.06		25		
trans-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130	2.60		25		
Diethyl Ether	0.0168	0.020	mg/Kg wet	0.0200		83.9		70-130	1.44		25		
Diisopropyl Ether (DIPE)	0.0170	0.0010	mg/Kg wet	0.0200		85.1		70-130	18.4		25		
1,4-Dioxane	0.301	0.10	mg/Kg wet	0.200		151		40-160	4.45		50	V-16	† ‡
Ethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130	0.175		25		
Hexachlorobutadiene	0.0251	0.0020	mg/Kg wet	0.0200		125		70-160	2.75		25		
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114		70-160	17.3		25		†
Isopropylbenzene (Cumene)	0.0270	0.0020	mg/Kg wet	0.0200		**135**	*	70-130	0.00		25	L-02	
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	0.786		25		
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101		70-130	0.397		25		
Methylene Chloride	0.0202	0.020	mg/Kg wet	0.0200		101		40-160	3.62		25		†
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104		70-160	18.4		25		†
Naphthalene	0.0272	0.020	mg/Kg wet	0.0200		**136**	*	40-130	24.1		25	L-06	†

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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 B009696 - SW-846 5035												
LCS Dup (B009696-BSD1)				Prepared & Analyzed: 01/25/10								
n-Propylbenzene	0.0250	0.0020	mg/Kg wet	0.0200		125		70-130	0.240	25		
Styrene	0.0229	0.0020	mg/Kg wet	0.0200		115		70-130	1.99	25		
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	1.37	25		
1,1,2,2-Tetrachloroethane	0.0242	0.0010	mg/Kg wet	0.0200		121		70-130	5.94	25		
Tetrachloroethylene	0.0256	0.0020	mg/Kg wet	0.0200		128		70-130	0.705	25		
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.7		70-130	11.8	25		
Toluene	0.0244	0.0020	mg/Kg wet	0.0200		122		70-130	4.02	25		
1,2,3-Trichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	10.2	25		
1,2,4-Trichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130	8.09	25		
1,1,1-Trichloroethane	0.0175	0.0020	mg/Kg wet	0.0200		87.7		70-130	3.80	25		
1,1,2-Trichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130	1.63	25		
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	2.11	25		
Trichlorofluoromethane (Freon 11)	0.0330	0.010	mg/Kg wet	0.0200		**165**	*	70-130	0.604	25	L-02, V-06	
1,2,3-Trichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.6		70-130	11.8	25		
1,2,4-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7		70-130	0.760	25		
1,3,5-Trimethylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	1.07	25		
Vinyl Chloride	0.0218	0.010	mg/Kg wet	0.0200		109		40-130	8.78	25		†
m+p Xylene	0.0453	0.0040	mg/Kg wet	0.0400		113		70-130	0.00	25		
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	0.723	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0395*		mg/Kg wet	0.0500		79.1		70-130				
Surrogate: Toluene-d8	*0.0563*		mg/Kg wet	0.0500		113		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0520*		mg/Kg wet	0.0500		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 B009646 - SW-846 3546										
Blank (B009646-BLK1)				Prepared: 01/23/10 Analyzed: 01/26/10						
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							
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	0.66	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
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	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							L-04
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							R-05
1,2-Diphenylhydrazine (as 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 B009646 - SW-846 3546												
Blank (B009646-BLK1)				Prepared: 01/23/10 Analyzed: 01/26/10								
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	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	*5.59*		mg/Kg wet	6.67		83.8		30-130				
Surrogate: Phenol-d6	*5.23*		mg/Kg wet	6.67		78.5		30-130				
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.7		30-130				
Surrogate: 2-Fluorobiphenyl	*2.56*		mg/Kg wet	3.33		76.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.89*		mg/Kg wet	6.67		58.3		30-130				
Surrogate: Terphenyl-d14	*2.82*		mg/Kg wet	3.33		84.7		30-130				
LCS (B009646-BS1)				Prepared: 01/23/10 Analyzed: 01/26/10								
Acenaphthene	1.01	0.17	mg/Kg wet	1.67		60.4		40-140				
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140				
Acetophenone	0.487	0.34	mg/Kg wet	0.833		58.4		40-140				
Aniline	0.538	0.34	mg/Kg wet	1.67		32.3		10-140				†
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.5		40-140				
Benzo(a)anthracene	0.994	0.17	mg/Kg wet	1.67		59.7		40-140				
Benzo(a)pyrene	0.800	0.17	mg/Kg wet	1.67		48.0		40-140				
Benzo(b)fluoranthene	0.756	0.17	mg/Kg wet	1.67		45.3		40-140				
Benzo(g,h,i)perylene	0.961	0.17	mg/Kg wet	1.67		57.7		40-140				
Benzo(k)fluoranthene	0.794	0.17	mg/Kg wet	1.67		47.6		40-140				
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.3		40-140				
Bis(2-chloroethyl)ether	1.13	0.34	mg/Kg wet	1.67		68.1		40-140				
Bis(2-chloroisopropyl)ether	1.11	0.34	mg/Kg wet	1.67		66.7		40-140				
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		73.2		40-140				
4-Bromophenylphenylether	1.04	0.34	mg/Kg wet	1.67		62.6		40-140				
Butylbenzylphthalate	1.21	0.66	mg/Kg wet	1.67		72.7		40-140				
4-Chloroaniline	0.339	0.66	mg/Kg wet	1.67		20.3		10-140				†
2-Chloronaphthalene	0.917	0.34	mg/Kg wet	1.67		55.0		40-140				
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.1		30-130				
Chrysene	0.984	0.17	mg/Kg wet	1.67		59.0		40-140				
Dibenz(a,h)anthracene	0.968	0.17	mg/Kg wet	1.67		58.1		40-140				
Dibenzofuran	1.14	0.34	mg/Kg wet	1.67		68.7		40-140				
Di-n-butylphthalate	1.32	0.34	mg/Kg wet	1.67		79.3		40-140				
1,2-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		62.8		40-140				
1,3-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4		40-140				
1,4-Dichlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.7		40-140				
3,3-Dichlorobenzidine	0.492	0.17	mg/Kg wet	1.67		29.5		20-140				†
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.67		65.9		30-130				
Diethylphthalate	1.27	0.34	mg/Kg wet	1.67		76.0		40-140				
2,4-Dimethylphenol	1.10	0.34	mg/Kg wet	1.67		66.1		30-130				
Dimethylphthalate	1.20	0.66	mg/Kg wet	1.67		72.2		40-140				
2,4-Dinitrophenol	0.458	0.66	mg/Kg wet	1.67		**27.5**	*	30-130			L-04	
2,4-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.67		76.4		40-140				
2,6-Dinitrotoluene	1.26	0.34	mg/Kg wet	1.67		75.6		40-140				
Di-n-octylphthalate	0.984	0.66	mg/Kg wet	1.67		59.0		40-140			R-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.06	0.34	mg/Kg wet	1.67		63.6		40-140				
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4		40-140				
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.0		40-140				
Hexachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.6		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 B009646 - SW-846 3546												
LCS (B009646-BS1)				Prepared: 01/23/10 Analyzed: 01/26/10								
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.6		40-140				
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.9		40-140				
Indeno(1,2,3-cd)pyrene	0.955	0.17	mg/Kg wet	1.67		57.3		40-140				
Isophorone	1.23	0.34	mg/Kg wet	1.67		73.6		40-140				
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		64.9		40-140				
2-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.4		30-130				
3/4-Methylphenol	1.16	0.34	mg/Kg wet	1.67		69.4		30-130				
Naphthalene	0.955	0.17	mg/Kg wet	1.67		57.3		40-140				
Nitrobenzene	1.01	0.34	mg/Kg wet	1.67		60.9		40-140				
2-Nitrophenol	1.03	0.34	mg/Kg wet	1.67		61.5		30-130				
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.7		30-130				
Pentachlorophenol	0.462	0.34	mg/Kg wet	1.67		**27.7**	*	30-130			L-07	
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.0		40-140				
Phenol	1.05	0.34	mg/Kg wet	1.67		62.9		30-130				
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.4		40-140				
1,2,4-Trichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.6		40-140				
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.1		30-130				
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.4		30-130				
Surrogate: 2-Fluorophenol	*4.59*		mg/Kg wet	6.67		68.8		30-130				
Surrogate: Phenol-d6	*4.57*		mg/Kg wet	6.67		68.6		30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2		30-130				
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/Kg wet	3.33		64.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.68*		mg/Kg wet	6.67		85.2		30-130				
Surrogate: Terphenyl-d14	*2.47*		mg/Kg wet	3.33		74.2		30-130				
LCS Dup (B009646-BSD1)				Prepared: 01/23/10 Analyzed: 01/26/10								
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.7		40-140	14.3	30		
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.4		40-140	15.2	30		
Acetophenone	0.527	0.34	mg/Kg wet	0.833		63.2		40-140	7.83	30		
Aniline	0.584	0.34	mg/Kg wet	1.67		35.0		10-140	8.14	50		† ‡
Anthracene	1.23	0.17	mg/Kg wet	1.67		73.9		40-140	12.0	30		
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.1		40-140	13.2	30		
Benzo(a)pyrene	0.943	0.17	mg/Kg wet	1.67		56.6		40-140	16.4	30		
Benzo(b)fluoranthene	0.910	0.17	mg/Kg wet	1.67		54.6		40-140	18.5	30		
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	8.21	30		
Benzo(k)fluoranthene	0.963	0.17	mg/Kg wet	1.67		57.8		40-140	19.3	30		
Bis(2-chloroethoxy)methane	1.38	0.34	mg/Kg wet	1.67		83.1		40-140	18.1	30		
Bis(2-chloroethyl)ether	1.32	0.34	mg/Kg wet	1.67		79.4		40-140	15.4	30		
Bis(2-chloroisopropyl)ether	1.30	0.34	mg/Kg wet	1.67		78.3		40-140	16.0	30		
Bis(2-Ethylhexyl)phthalate	1.52	0.34	mg/Kg wet	1.67		91.4		40-140	22.1	30		
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		77.9		40-140	21.7	30		
Butylbenzylphthalate	1.52	0.66	mg/Kg wet	1.67		91.5		40-140	22.9	30		
4-Chloroaniline	0.251	0.66	mg/Kg wet	1.67		15.1		10-140	29.7	30		†
2-Chloronaphthalene	1.12	0.34	mg/Kg wet	1.67		67.4		40-140	20.2	30		
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.67		71.0		30-130	10.2	30		
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.2		40-140	13.0	30		
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		62.8		40-140	7.74	30		
Dibenzofuran	1.27	0.34	mg/Kg wet	1.67		76.0		40-140	10.1	30		
Di-n-butylphthalate	1.51	0.34	mg/Kg wet	1.67		90.4		40-140	13.0	30		
1,2-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	14.5	30		
1,3-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.8		40-140	15.4	30		
1,4-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.2		40-140	15.6	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 B009646 - SW-846 3546													
LCS Dup (B009646-BSD1)				Prepared: 01/23/10 Analyzed: 01/26/10									
3,3-Dichlorobenzidine	0.489	0.17	mg/Kg wet	1.67		29.3		20-140	0.612		50		† ‡
2,4-Dichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.5		30-130	8.12		30		
Diethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.0		40-140	11.2		30		
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.0		30-130	12.7		30		
Dimethylphthalate	1.40	0.66	mg/Kg wet	1.67		84.2		40-140	15.3		30		
2,4-Dinitrophenol	0.492	0.66	mg/Kg wet	1.67		**29.5**	*	30-130	7.15		30	L-04	
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		77.8		40-140	1.84		30		
2,6-Dinitrotoluene	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	10.1		30		
Di-n-octylphthalate	1.39	0.66	mg/Kg wet	1.67		83.4		40-140	**34.2**	*	30	R-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.36	0.34	mg/Kg wet	1.67		81.4		40-140	24.5		30		
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2		40-140	3.72		30		
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.0		40-140	5.88		30		
Hexachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4		40-140	20.3		30		
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.1		40-140	23.3		30		
Hexachloroethane	1.28	0.34	mg/Kg wet	1.67		76.5		40-140	16.5		30		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.2		40-140	8.13		30		
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.5		40-140	16.0		30		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.7		40-140	8.61		30		
2-Methylphenol	1.22	0.34	mg/Kg wet	1.67		73.4		30-130	2.61		30		
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2		30-130	3.31		30		
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.2		40-140	15.9		30		
Nitrobenzene	1.25	0.34	mg/Kg wet	1.67		75.1		40-140	21.0		30		
2-Nitrophenol	1.18	0.34	mg/Kg wet	1.67		70.7		30-130	13.9		30		
4-Nitrophenol	0.785	0.66	mg/Kg wet	1.67		47.1		30-130	31.4		50		‡
Pentachlorophenol	0.549	0.34	mg/Kg wet	1.67		33.0		30-130	17.3		30		
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.4		40-140	12.3		30		
Phenol	1.15	0.34	mg/Kg wet	1.67		68.9		30-130	9.04		30		
Pyrene	1.28	0.17	mg/Kg wet	1.67		76.5		40-140	23.5		30		
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140	17.7		30		
2,4,5-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8		30-130	6.37		30		
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8		30-130	15.2		30		
Surrogate: 2-Fluorophenol	*5.25*		mg/Kg wet	6.67		78.8		30-130					
Surrogate: Phenol-d6	*4.88*		mg/Kg wet	6.67		73.1		30-130					
Surrogate: Nitrobenzene-d5	*2.53*		mg/Kg wet	3.33		76.0		30-130					
Surrogate: 2-Fluorobiphenyl	*2.72*		mg/Kg wet	3.33		81.6		30-130					
Surrogate: 2,4,6-Tribromophenol	*5.30*		mg/Kg wet	6.67		79.6		30-130					
Surrogate: Terphenyl-d14	*3.10*		mg/Kg wet	3.33		93.0		30-130					

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009648 - SW-846 3546										
Blank (B009648-BLK1)				Prepared: 01/23/10 Analyzed: 01/25/10						
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0030	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0030	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0080	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0080	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0080	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0080	mg/Kg wet							
Dieldrin	ND	0.0020	mg/Kg wet							
Dieldrin [2C]	ND	0.0020	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.4	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009648 - SW-846 3546										
LCS (B009648-BS1)				Prepared: 01/23/10 Analyzed: 01/25/10						
Alachlor	0.021	0.020	mg/Kg wet	0.0200		103	40-140			
Alachlor [2C]	0.020	0.020	mg/Kg wet	0.0200		98.0	40-140			
Aldrin	0.020	0.0050	mg/Kg wet	0.0200		98.7	40-140			
Aldrin [2C]	0.020	0.0050	mg/Kg wet	0.0200		101	40-140			
alpha-BHC	0.023	0.0050	mg/Kg wet	0.0200		114	40-140			
alpha-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		103	40-140			
beta-BHC	0.020	0.0050	mg/Kg wet	0.0200		100	40-140			
beta-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.9	40-140			
delta-BHC	0.018	0.0050	mg/Kg wet	0.0200		92.2	40-140			
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.4	40-140			
gamma-BHC (Lindane)	0.020	0.0030	mg/Kg wet	0.0200		99.7	40-140			
gamma-BHC (Lindane) [2C]	0.020	0.0030	mg/Kg wet	0.0200		102	40-140			
4,4'-DDD	0.019	0.0080	mg/Kg wet	0.0200		97.2	40-140			
4,4'-DDD [2C]	0.020	0.0080	mg/Kg wet	0.0200		99.2	40-140			
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		93.8	40-140			
4,4'-DDE [2C]	0.020	0.0040	mg/Kg wet	0.0200		101	40-140			
4,4'-DDT	0.018	0.0080	mg/Kg wet	0.0200		89.8	40-140			
4,4'-DDT [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.1	40-140			
Dieldrin	0.020	0.0020	mg/Kg wet	0.0200		98.6	40-140			
Dieldrin [2C]	0.021	0.0020	mg/Kg wet	0.0200		104	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		93.9	40-140			
Endosulfan I [2C]	0.020	0.0050	mg/Kg wet	0.0200		100	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		98.0	40-140			
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
Endosulfan Sulfate	0.019	0.0080	mg/Kg wet	0.0200		96.1	40-140			
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		97.2	40-140			
Endrin	0.017	0.0080	mg/Kg wet	0.0200		84.0	40-140			
Endrin [2C]	0.017	0.0080	mg/Kg wet	0.0200		87.4	40-140			
Endrin Aldehyde	0.019	0.0080	mg/Kg wet	0.0200		95.9	40-140			
Endrin Aldehyde [2C]	0.018	0.0080	mg/Kg wet	0.0200		90.9	40-140			
Endrin Ketone	0.021	0.0080	mg/Kg wet	0.0200		107	40-140			
Endrin Ketone [2C]	0.021	0.0080	mg/Kg wet	0.0200		103	40-140			
Heptachlor	0.020	0.0050	mg/Kg wet	0.0200		98.5	40-140			
Heptachlor [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140			
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		97.5	40-140			
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		102	40-140			
Hexachlorobenzene	0.021	0.0050	mg/Kg wet	0.0200		105	40-140			
Hexachlorobenzene [2C]	0.020	0.0050	mg/Kg wet	0.0200		100	40-140			
Methoxychlor	0.014	0.050	mg/Kg wet	0.0200		71.2	40-140			
Methoxychlor [2C]	0.019	0.050	mg/Kg wet	0.0200		93.4	40-140			
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg wet	0.200		90.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009648 - SW-846 3546										
LCS Dup (B009648-BSD1)				Prepared: 01/23/10 Analyzed: 01/25/10						
Alachlor	0.021	0.020	mg/Kg wet	0.0200		106	40-140	2.45	30	
Alachlor [2C]	0.020	0.020	mg/Kg wet	0.0200		102	40-140	4.23	30	
Aldrin	0.021	0.0050	mg/Kg wet	0.0200		103	40-140	4.26	30	
Aldrin [2C]	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	5.26	30	
alpha-BHC	0.023	0.0050	mg/Kg wet	0.0200		115	40-140	0.341	30	
alpha-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		109	40-140	5.63	30	
beta-BHC	0.021	0.0050	mg/Kg wet	0.0200		105	40-140	4.29	30	
beta-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		104	40-140	4.64	30	
delta-BHC	0.019	0.0050	mg/Kg wet	0.0200		96.3	40-140	4.38	30	
delta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		97.4	40-140	6.37	30	
gamma-BHC (Lindane)	0.021	0.0030	mg/Kg wet	0.0200		104	40-140	3.95	30	
gamma-BHC (Lindane) [2C]	0.022	0.0030	mg/Kg wet	0.0200		108	40-140	5.19	30	
4,4'-DDD	0.020	0.0080	mg/Kg wet	0.0200		102	40-140	5.10	30	
4,4'-DDD [2C]	0.021	0.0080	mg/Kg wet	0.0200		105	40-140	5.21	30	
4,4'-DDE	0.020	0.0040	mg/Kg wet	0.0200		99.5	40-140	5.91	30	
4,4'-DDE [2C]	0.021	0.0040	mg/Kg wet	0.0200		107	40-140	5.48	30	
4,4'-DDT	0.019	0.0080	mg/Kg wet	0.0200		94.7	40-140	5.28	30	
4,4'-DDT [2C]	0.020	0.0080	mg/Kg wet	0.0200		98.6	40-140	5.68	30	
Dieldrin	0.021	0.0020	mg/Kg wet	0.0200		104	40-140	5.18	30	
Dieldrin [2C]	0.022	0.0020	mg/Kg wet	0.0200		110	40-140	5.29	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		97.9	40-140	4.19	30	
Endosulfan I [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	5.38	30	
Endosulfan II	0.021	0.0080	mg/Kg wet	0.0200		103	40-140	5.01	30	
Endosulfan II [2C]	0.021	0.0080	mg/Kg wet	0.0200		106	40-140	5.17	30	
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		101	40-140	4.91	30	
Endosulfan Sulfate [2C]	0.021	0.0080	mg/Kg wet	0.0200		103	40-140	5.44	30	
Endrin	0.018	0.0080	mg/Kg wet	0.0200		87.9	40-140	4.51	30	
Endrin [2C]	0.018	0.0080	mg/Kg wet	0.0200		92.0	40-140	5.07	30	
Endrin Aldehyde	0.020	0.0080	mg/Kg wet	0.0200		100	40-140	4.20	30	
Endrin Aldehyde [2C]	0.019	0.0080	mg/Kg wet	0.0200		95.8	40-140	5.26	30	
Endrin Ketone	0.022	0.0080	mg/Kg wet	0.0200		111	40-140	3.62	30	
Endrin Ketone [2C]	0.022	0.0080	mg/Kg wet	0.0200		109	40-140	5.09	30	
Heptachlor	0.021	0.0050	mg/Kg wet	0.0200		103	40-140	4.15	30	
Heptachlor [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140	4.59	30	
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		101	40-140	3.87	30	
Heptachlor Epoxide [2C]	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	5.38	30	
Hexachlorobenzene	0.022	0.0050	mg/Kg wet	0.0200		110	40-140	4.05	30	
Hexachlorobenzene [2C]	0.021	0.0050	mg/Kg wet	0.0200		105	40-140	4.85	30	
Methoxychlor	0.015	0.050	mg/Kg wet	0.0200		76.3	40-140	6.85	30	
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		97.5	40-140	4.38	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.3	30-150			

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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 B009647 - SW-846 3546										
Blank (B009647-BLK1)				Prepared: 01/23/10 Analyzed: 01/25/10						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.6	30-150			
LCS (B009647-BS1)				Prepared: 01/23/10 Analyzed: 01/25/10						
Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		71.6	40-140			
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		83.5	40-140			
Aroclor-1260	0.15	0.10	mg/Kg wet	0.200		75.4	40-140			
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		82.1	40-140			
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.149*		mg/Kg wet	0.200		74.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		80.9	30-150			
LCS Dup (B009647-BSD1)				Prepared: 01/23/10 Analyzed: 01/25/10						
Aroclor-1016	0.13	0.10	mg/Kg wet	0.200		66.1	40-140	7.99	30	
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		86.1	40-140	3.04	30	
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		71.6	40-140	5.09	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		79.2	40-140	3.56	30	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg wet	0.200		70.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.139*		mg/Kg wet	0.200		69.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.147*		mg/Kg wet	0.200		73.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.157*		mg/Kg wet	0.200		78.4	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 B009660 - SW-846 3546										
Blank (B009660-BLK1)				Prepared: 01/25/10 Analyzed: 01/26/10						
TPH as Diesel	ND	8.3	mg/Kg wet							
LCS (B009660-BS1)				Prepared: 01/25/10 Analyzed: 01/26/10						
TPH as Diesel	28.2	8.3	mg/Kg wet	33.3		84.7	40-140			
LCS Dup (B009660-BSD1)				Prepared: 01/25/10 Analyzed: 01/26/10						
TPH as Diesel	28.2	8.3	mg/Kg wet	33.3		84.5	40-140	0.240	30	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009945 - SW-846 3546										
Blank (B009945-BLK1)				Prepared: 02/02/10 Analyzed: 02/03/10						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*2.34*		mg/Kg wet	5.00		46.8	40-140			
Surrogate: o-Terphenyl (OTP)	*3.77*		mg/Kg wet	5.00		75.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.02*		mg/Kg wet	5.00		80.4	40-140			
Surrogate: 2-Fluorobiphenyl	*3.91*		mg/Kg wet	5.00		78.3	40-140			
LCS (B009945-BS1)				Prepared: 02/02/10 Analyzed: 02/03/10						
C9-C18 Aliphatics	19.6	10	mg/Kg wet	30.0		65.2	40-140			
C19-C36 Aliphatics	32.5	10	mg/Kg wet	40.0		81.3	40-140			
Unadjusted C11-C22 Aromatics	74.6	10	mg/Kg wet	85.0		87.8	40-140			
Acenaphthene	3.70	0.10	mg/Kg wet	5.00		73.9	40-140			
Acenaphthylene	3.58	0.10	mg/Kg wet	5.00		71.6	40-140			
Anthracene	4.27	0.10	mg/Kg wet	5.00		85.4	40-140			
Benzo(a)anthracene	4.41	0.10	mg/Kg wet	5.00		88.2	40-140			
Benzo(a)pyrene	4.40	0.10	mg/Kg wet	5.00		87.9	40-140			
Benzo(b)fluoranthene	4.62	0.10	mg/Kg wet	5.00		92.4	40-140			
Benzo(g,h,i)perylene	4.35	0.10	mg/Kg wet	5.00		87.0	40-140			
Benzo(k)fluoranthene	4.50	0.10	mg/Kg wet	5.00		89.9	40-140			
Chrysene	4.56	0.10	mg/Kg wet	5.00		91.2	40-140			
Dibenz(a,h)anthracene	4.36	0.10	mg/Kg wet	5.00		87.1	40-140			
Fluoranthene	4.33	0.10	mg/Kg wet	5.00		86.6	40-140			
Fluorene	3.96	0.10	mg/Kg wet	5.00		79.1	40-140			
Indeno(1,2,3-cd)pyrene	4.35	0.10	mg/Kg wet	5.00		87.1	40-140			
2-Methylnaphthalene	3.34	0.10	mg/Kg wet	5.00		66.7	40-140			
Naphthalene	3.04	0.10	mg/Kg wet	5.00		60.9	40-140			
Phenanthrene	4.18	0.10	mg/Kg wet	5.00		83.6	40-140			
Pyrene	4.49	0.10	mg/Kg wet	5.00		89.7	40-140			
n-Nonane	1.81	0.10	mg/Kg wet	5.00		36.1	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*2.53*		mg/Kg wet	5.00		50.7	40-140			
Surrogate: o-Terphenyl (OTP)	*4.34*		mg/Kg wet	5.00		86.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009945 - SW-846 3546										
LCS (B009945-BS1)				Prepared: 02/02/10 Analyzed: 02/03/10						
Surrogate: 2-Bromonaphthalene	*4.48*		mg/Kg wet	5.00		89.7	40-140			
Surrogate: 2-Fluorobiphenyl	*4.47*		mg/Kg wet	5.00		89.5	40-140			
LCS Dup (B009945-BSD1)				Prepared: 02/02/10 Analyzed: 02/03/10						
C9-C18 Aliphatics	19.0	10	mg/Kg wet	30.0		63.4	40-140	2.94	25	
C19-C36 Aliphatics	31.7	10	mg/Kg wet	40.0		79.2	40-140	2.53	25	
Unadjusted C11-C22 Aromatics	65.7	10	mg/Kg wet	85.0		77.3	40-140	12.7	25	
Acenaphthene	3.21	0.10	mg/Kg wet	5.00		64.3	40-140	14.0	25	
Acenaphthylene	3.12	0.10	mg/Kg wet	5.00		62.4	40-140	13.8	25	
Anthracene	3.72	0.10	mg/Kg wet	5.00		74.5	40-140	13.7	25	
Benzo(a)anthracene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	13.3	25	
Benzo(a)pyrene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	13.0	25	
Benzo(b)fluoranthene	4.03	0.10	mg/Kg wet	5.00		80.7	40-140	13.5	25	
Benzo(g,h,i)perylene	3.84	0.10	mg/Kg wet	5.00		76.8	40-140	12.4	25	
Benzo(k)fluoranthene	3.95	0.10	mg/Kg wet	5.00		79.0	40-140	13.0	25	
Chrysene	4.00	0.10	mg/Kg wet	5.00		80.1	40-140	13.0	25	
Dibenz(a,h)anthracene	3.84	0.10	mg/Kg wet	5.00		76.8	40-140	12.6	25	
Fluoranthene	3.76	0.10	mg/Kg wet	5.00		75.3	40-140	13.9	25	
Fluorene	3.44	0.10	mg/Kg wet	5.00		68.9	40-140	13.8	25	
Indeno(1,2,3-cd)pyrene	3.81	0.10	mg/Kg wet	5.00		76.3	40-140	13.2	25	
2-Methylnaphthalene	2.91	0.10	mg/Kg wet	5.00		58.3	40-140	13.5	25	
Naphthalene	2.66	0.10	mg/Kg wet	5.00		53.2	40-140	13.5	25	
Phenanthrene	3.64	0.10	mg/Kg wet	5.00		72.7	40-140	13.9	25	
Pyrene	3.91	0.10	mg/Kg wet	5.00		78.1	40-140	13.8	25	
n-Nonane	1.78	0.10	mg/Kg wet	5.00		35.7	30-140	1.35	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*2.40*		mg/Kg wet	5.00		48.0	40-140			
Surrogate: o-Terphenyl (OTP)	*3.78*		mg/Kg wet	5.00		75.5	40-140			
Surrogate: 2-Bromonaphthalene	*3.92*		mg/Kg wet	5.00		78.3	40-140			
Surrogate: 2-Fluorobiphenyl	*3.92*		mg/Kg wet	5.00		78.5	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B009942 - MA VPH											
Blank (B009942-BLK1)				Prepared & Analyzed: 02/02/10							
Unadjusted C5-C8 Aliphatics	ND	16	mg/Kg wet								
C5-C8 Aliphatics	ND	16	mg/Kg wet								
Unadjusted C9-C12 Aliphatics	ND	11	mg/Kg wet								
C9-C12 Aliphatics	ND	11	mg/Kg wet								
C9-C10 Aromatics	ND	11	mg/Kg wet								
Benzene	ND	0.053	mg/Kg wet								
Butylcyclohexane	ND	0.053	mg/Kg wet								
Decane	ND	0.053	mg/Kg wet								
Ethylbenzene	ND	0.053	mg/Kg wet								
Methyl tert-Butyl Ether (MTBE)	ND	0.053	mg/Kg wet								
2-Methylpentane	ND	0.053	mg/Kg wet								
Naphthalene	ND	0.53	mg/Kg wet								
Nonane	ND	0.053	mg/Kg wet								
Pentane	ND	0.053	mg/Kg wet								
Toluene	ND	0.053	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.053	mg/Kg wet								
2,2,4-Trimethylpentane	ND	0.053	mg/Kg wet								
m+p Xylene	ND	0.11	mg/Kg wet								
o-Xylene	ND	0.053	mg/Kg wet								
Surrogate: 2,5-Dibromotoluene (FID)	*3.23*		mg/Kg wet	3.33		97.0	70-130				
Surrogate: 2,5-Dibromotoluene (PID)	*3.27*		mg/Kg wet	3.33		98.0	70-130				
LCS (B009942-BS1)				Prepared & Analyzed: 02/02/10							
Benzene	5.70	0.057	mg/Kg wet	6.67		85.5	70-130				
Butylcyclohexane	5.38	0.057	mg/Kg wet	6.67		80.8	70-130				
Decane	6.02	0.057	mg/Kg wet	6.67		90.3	70-130				
Ethylbenzene	5.98	0.057	mg/Kg wet	6.67		89.8	70-130				
Methyl tert-Butyl Ether (MTBE)	5.29	0.057	mg/Kg wet	6.67		79.3	70-130				
2-Methylpentane	6.18	0.057	mg/Kg wet	6.67		92.7	70-130				
Naphthalene	6.04	0.57	mg/Kg wet	6.67		90.5	70-130				R-01
Nonane	5.41	0.057	mg/Kg wet	6.67		81.1	30-130				
Pentane	6.35	0.057	mg/Kg wet	6.67		95.3	70-130				
Toluene	5.95	0.057	mg/Kg wet	6.67		89.3	70-130				
1,2,4-Trimethylbenzene	6.36	0.057	mg/Kg wet	6.67		95.4	70-130				
2,2,4-Trimethylpentane	5.56	0.057	mg/Kg wet	6.67		83.4	70-130				
m+p Xylene	12.2	0.11	mg/Kg wet	13.3		91.2	70-130				
o-Xylene	6.27	0.057	mg/Kg wet	6.67		94.0	70-130				
Surrogate: 2,5-Dibromotoluene (FID)	*3.13*		mg/Kg wet	3.33		93.9	70-130				
Surrogate: 2,5-Dibromotoluene (PID)	*3.10*		mg/Kg wet	3.33		93.1	70-130				
LCS Dup (B009942-BSD1)				Prepared & Analyzed: 02/02/10							
Benzene	6.16	0.057	mg/Kg wet	6.67		92.5	70-130	7.86		25	
Butylcyclohexane	5.61	0.057	mg/Kg wet	6.67		84.1	70-130	4.06		25	
Decane	6.29	0.057	mg/Kg wet	6.67		94.3	70-130	4.38		25	
Ethylbenzene	6.19	0.057	mg/Kg wet	6.67		92.8	70-130	3.30		25	
Methyl tert-Butyl Ether (MTBE)	6.00	0.057	mg/Kg wet	6.67		90.1	70-130	12.7		25	
2-Methylpentane	6.73	0.057	mg/Kg wet	6.67		101	70-130	8.64		25	
Naphthalene	8.39	0.57	mg/Kg wet	6.67		126	70-130	**32.6**	*	25	R-01
Nonane	5.74	0.057	mg/Kg wet	6.67		86.0	30-130	5.88		25	
Pentane	6.84	0.057	mg/Kg wet	6.67		103	70-130	7.38		25	
Toluene	6.24	0.057	mg/Kg wet	6.67		93.7	70-130	4.77		25	
1,2,4-Trimethylbenzene	6.50	0.057	mg/Kg wet	6.67		97.5	70-130	2.25		25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009942 - MA VPH										
LCS Dup (B009942-BSD1)				Prepared & Analyzed: 02/02/10						
2,2,4-Trimethylpentane	5.69	0.057	mg/Kg wet	6.67		85.3	70-130	2.22	25	
m+p Xylene	12.5	0.11	mg/Kg wet	13.3		93.8	70-130	2.86	25	
o-Xylene	6.45	0.057	mg/Kg wet	6.67		96.7	70-130	2.89	25	
Surrogate: 2,5-Dibromotoluene (FID)	*4.22*		mg/Kg wet	3.33		127	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*4.31*		mg/Kg wet	3.33		129	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009631 - SW-846 3051										
Blank (B009631-BLK1)				Prepared: 01/22/10 Analyzed: 01/25/10						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	5.0	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B009631-BS1)				Prepared: 01/22/10 Analyzed: 01/25/10						
Arsenic	171	5.1	mg/Kg wet	162		105	81.6-118.4			
Barium	352	10	mg/Kg wet	357		98.7	80.7-119.3			
Cadmium	175	0.51	mg/Kg wet	192		91.5	82.4-117.6			
Chromium	96.0	1.0	mg/Kg wet	91.7		105	78.8-120.7			
Lead	168	1.5	mg/Kg wet	176		95.6	79.1-120.3			
Selenium	151	10	mg/Kg wet	152		99.7	78.4-120.9			
Silver	61.5	1.0	mg/Kg wet	67.6		90.9	66.2-133.6			
LCS (B009631-BS2)				Prepared: 01/22/10 Analyzed: 01/25/10						
Lead	0.753	0.75	mg/Kg wet	0.750		100	79.1-120.3			
LCS Dup (B009631-BSD1)				Prepared: 01/22/10 Analyzed: 01/25/10						
Arsenic	161	5.1	mg/Kg wet	162		99.6	81.6-118.4	5.63	30	
Barium	337	10	mg/Kg wet	357		94.3	80.7-119.3	4.45	30	
Cadmium	168	0.51	mg/Kg wet	192		87.5	82.4-117.6	4.36	30	
Chromium	94.0	1.0	mg/Kg wet	91.8		102	78.8-120.7	2.19	30	
Lead	161	1.5	mg/Kg wet	176		91.1	79.1-120.3	4.67	30	
Selenium	145	10	mg/Kg wet	152		95.4	78.4-120.9	4.27	30	
Silver	58.9	1.0	mg/Kg wet	67.7		87.0	66.2-133.6	4.34	30	
Batch B009658 - SW-846 7471A										
Blank (B009658-BLK1)				Prepared & Analyzed: 01/25/10						
Mercury	ND	0.025	mg/Kg wet							
LCS (B009658-BS1)				Prepared & Analyzed: 01/25/10						
Mercury	0.979	0.025	mg/Kg wet	1.10		89.3	66-132			
LCS Dup (B009658-BSD1)				Prepared & Analyzed: 01/25/10						
Mercury	0.889	0.025	mg/Kg wet	1.02		86.8	66-132	9.65	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch V0122 - SW-846 3540C										
BLK (V0122-BLK1)				Prepared & Analyzed: 01/25/10						
2,4-D	ND	100	µg/Kg				-			
2,4-DB	ND	100	µg/Kg				-			
2,4,5-TP (Silvex)	ND	100	µg/Kg				-			
2,4,5-T	ND	100	µg/Kg				-			
Dalapon	ND	100	µg/Kg				-			
Dicamba	ND	100	µg/Kg				-			
Dichloroprop	ND	100	µg/Kg				-			
Dinoseb	ND	100	µg/Kg				-			
Surrogate: DCMA	*71*		µg/Kg			71	40-140			
BS (V0122-BS1)				Prepared & Analyzed: 01/25/10						
2,4-D	750	250	µg/Kg	1000		75	40-140			
2,4-DB	800	250	µg/Kg	1000		80	40-140			
2,4,5-TP (Silvex)	752	250	µg/Kg	1000		75.2	40-140			
2,4,5-T	960	250	µg/Kg	1000		96	40-140			
Dalapon	519	250	µg/Kg	1000		51.9	40-140			
Dicamba	743	250	µg/Kg	1000		74.3	40-140			
Dichloroprop	723	250	µg/Kg	1000		72.3	40-140			
Dinoseb	847	250	µg/Kg	1000		84.7	40-140			
Surrogate: DCMA	*80*		µg/Kg			80	40-140			
BSD (V0122-BSD1)				Prepared & Analyzed: 01/25/10						
2,4-D	756	250	µg/Kg	1000		75.6	40-140		25	
2,4-DB	764	250	µg/Kg	1000		76.4	40-140		25	
2,4,5-TP (Silvex)	742	250	µg/Kg	1000		74.2	40-140		25	
2,4,5-T	961	250	µg/Kg	1000		96.1	40-140		25	
Dalapon	519	250	µg/Kg	1000		51.9	40-140		25	
Dicamba	744	250	µg/Kg	1000		74.4	40-140		25	
Dichloroprop	735	250	µg/Kg	1000		73.5	40-140		25	
Dinoseb	843	250	µg/Kg	1000		84.3	40-140		25	
Surrogate: DCMA	*83*		µg/Kg			83	40-140			

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BREAKDOWN REPORT

Lab Sample ID: S000248-PEM1 **Analyzed:** 01/25/2010

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.88
Endrin [1]	14.43

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.91
Endrin [2]	13.42

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-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-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-06	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 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-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-01	Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA
C5-C8 Aliphatics	CT,NC,WA
Unadjusted C9-C12 Aliphatics	CT,NC,WA
C9-C12 Aliphatics	CT,NC,WA
C9-C10 Aromatics	CT,NC,WA
Benzene	CT,NC,WA
Ethylbenzene	CT,NC,WA
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA
Naphthalene	CT,NC,WA
Toluene	CT,NC,WA
o-Xylene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 8081A in Soil	
Alachlor	CT,NH,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Soil	
Alachlor [2C]	CT,NH,NY
Aldrin	CT,NH,NY
Aldrin [2C]	CT,NH,NY
alpha-BHC	CT,NH,NY
alpha-BHC [2C]	CT,NH,NY
beta-BHC	CT,NH,NY
beta-BHC [2C]	CT,NH,NY
delta-BHC	CT,NH,NY
delta-BHC [2C]	CT,NH,NY
gamma-BHC (Lindane)	CT,NH,NY
gamma-BHC (Lindane) [2C]	CT,NH,NY
Chlordane	CT,NH,NY
Chlordane [2C]	CT,NH,NY
4,4'-DDD	CT,NH,NY
4,4'-DDD [2C]	CT,NH,NY
4,4'-DDE	CT,NH,NY
4,4'-DDE [2C]	CT,NH,NY
4,4'-DDT	CT,NH,NY
4,4'-DDT [2C]	CT,NH,NY
Dieldrin	CT,NH,NY
Dieldrin [2C]	CT,NH,NY
Endosulfan I	CT,NH,NY
Endosulfan I [2C]	CT,NH,NY
Endosulfan II	CT,NH,NY
Endosulfan II [2C]	CT,NH,NY
Endosulfan Sulfate	CT,NH,NY
Endosulfan Sulfate [2C]	CT,NH,NY
Endrin	CT,NH,NY
Endrin [2C]	CT,NH,NY
Endrin Aldehyde	CT,NH,NY
Endrin Aldehyde [2C]	CT,NH,NY
Heptachlor	CT,NH,NY
Heptachlor [2C]	CT,NH,NY
Heptachlor Epoxide	CT,NH,NY
Heptachlor Epoxide [2C]	CT,NH,NY
Hexachlorobenzene	CT,NH,NY
Hexachlorobenzene [2C]	CT,NH,NY
Methoxychlor	CT,NH,NY
Methoxychlor [2C]	CT,NH,NY
Toxaphene	CT,NH,NY
Toxaphene [2C]	CT,NH,NY
SW-846 8081A in Water	
Alachlor	CT,NH,NY,RI
Alachlor [2C]	CT,NH,NY,RI
Aldrin	CT,NH,NY,RI
Aldrin [2C]	CT,NH,NY,RI

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Water	
alpha-BHC	CT,NH,NY,RI
alpha-BHC [2C]	CT,NH,NY,RI
beta-BHC	CT,NH,NY,RI
beta-BHC [2C]	CT,NH,NY,RI
delta-BHC	CT,NH,NY,RI
delta-BHC [2C]	CT,NH,NY,RI
gamma-BHC (Lindane)	CT,NH,NY,RI
gamma-BHC (Lindane) [2C]	CT,NH,NY,RI
Chlordane	CT,NH,NY,RI
Chlordane [2C]	CT,NH,NY,RI
4,4'-DDD	CT,NH,NY,RI
4,4'-DDD [2C]	CT,NH,NY,RI
4,4'-DDE	CT,NH,NY,RI
4,4'-DDE [2C]	CT,NH,NY,RI
4,4'-DDT	CT,NH,NY,RI
4,4'-DDT [2C]	CT,NH,NY,RI
Dieldrin	CT,NH,NY,RI
Dieldrin [2C]	CT,NH,NY,RI
Endosulfan I	CT,NH,NY,RI
Endosulfan I [2C]	CT,NH,NY,RI
Endosulfan II	CT,NH,NY,RI
Endosulfan II [2C]	CT,NH,NY,RI
Endosulfan Sulfate	CT,NH,NY,RI
Endosulfan Sulfate [2C]	CT,NH,NY,RI
Endrin	CT,NH,NY,RI
Endrin [2C]	CT,NH,NY,RI
Endrin Aldehyde	CT,NH,NY,RI
Endrin Aldehyde [2C]	CT,NH,NY,RI
Heptachlor	CT,NH,NY,RI
Heptachlor [2C]	CT,NH,NY,RI
Heptachlor Epoxide	CT,NH,NY,RI
Heptachlor Epoxide [2C]	CT,NH,NY,RI
Hexachlorobenzene	CT,NH,NY,RI
Hexachlorobenzene [2C]	CT,NH,NY,RI
Methoxychlor	CT,NH,NY,RI
Methoxychlor [2C]	CT,NH,NY,RI
Toxaphene	CT,NH,NY,RI
Toxaphene [2C]	CT,NH,NY,RI
SW-846 8082 in Soil	
Aroclor-1016	CT,NH,NY
Aroclor-1016 [2C]	CT,NH,NY
Aroclor-1221	CT,NH,NY
Aroclor-1221 [2C]	CT,NH,NY
Aroclor-1232	CT,NH,NY
Aroclor-1232 [2C]	CT,NH,NY
Aroclor-1242	CT,NH,NY

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082 in Soil	
Aroclor-1242 [2C]	CT,NH,NY
Aroclor-1248	CT,NH,NY
Aroclor-1248 [2C]	CT,NH,NY
Aroclor-1254	CT,NH,NY
Aroclor-1254 [2C]	CT,NH,NY
Aroclor-1260	CT,NH,NY
Aroclor-1260 [2C]	CT,NH,NY
SW-846 8260B in Soil	
Acetone	CT,NH,NY
Benzene	CT,NH,NY
Bromobenzene	NH,NY
Bromochloromethane	NH,NY
Bromodichloromethane	CT,NH,NY
Bromoform	CT,NH,NY
Bromomethane	CT,NH,NY
2-Butanone (MEK)	CT,NH,NY
n-Butylbenzene	CT,NH,NY
sec-Butylbenzene	CT,NH,NY
tert-Butylbenzene	CT,NH,NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY
Chlorobenzene	CT,NH,NY
Chlorodibromomethane	CT,NH,NY
Chloroethane	CT,NH,NY
Chloroform	CT,NH,NY
Chloromethane	CT,NH,NY
2-Chlorotoluene	CT,NH,NY
4-Chlorotoluene	CT,NH,NY
Dibromomethane	NH,NY
1,2-Dichlorobenzene	CT,NH,NY
1,3-Dichlorobenzene	CT,NH,NY
1,4-Dichlorobenzene	CT,NH,NY
Dichlorodifluoromethane (Freon 12)	NY
1,1-Dichloroethane	CT,NH,NY
1,2-Dichloroethane	CT,NH,NY
1,1-Dichloroethylene	CT,NH,NY
cis-1,2-Dichloroethylene	CT,NH,NY
trans-1,2-Dichloroethylene	CT,NH,NY
1,2-Dichloropropane	CT,NH,NY
1,3-Dichloropropane	NH,NY
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis-1,3-Dichloropropene	CT,NH,NY
trans-1,3-Dichloropropene	CT,NH,NY
Ethylbenzene	CT,NH,NY
Hexachlorobutadiene	NH,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
2-Hexanone (MBK)	CT,NH,NY
Isopropylbenzene (Cumene)	CT,NH,NY
Methylene Chloride	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
Styrene	CT,NH,NY
1,1,1,2-Tetrachloroethane	CT,NH,NY
1,1,2,2-Tetrachloroethane	CT,NH,NY
Tetrachloroethylene	CT,NH,NY
Toluene	CT,NH,NY
1,2,4-Trichlorobenzene	NH,NY
1,1,1-Trichloroethane	CT,NH,NY
1,1,2-Trichloroethane	CT,NH,NY
Trichloroethylene	CT,NH,NY
Trichlorofluoromethane (Freon 11)	CT,NH,NY
1,2,3-Trichloropropane	NH,NY
1,2,4-Trimethylbenzene	CT,NH,NY
1,3,5-Trimethylbenzene	CT,NH,NY
Vinyl Chloride	CT,NH,NY
m+p Xylene	CT,NH,NY
o-Xylene	CT,NH,NY
SW-846 8270C 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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270C in Soil	
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
1,2-Diphenylhydrazine (as 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

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2010
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2010
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2010
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2010
FL	Florida Department of Health	E871027 NELAP	06/30/2010
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	03/23/2010

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

10A0386

Company Name: Triumvirate Environmental, Inc
Address: 61 Inner Belt Road, Somerville, MA 02143
Attention: Jason Atwood
Project Location: New Bedford, MA
Sampled By:

Telephone: 617-628-8098
Project # 605002
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ○ WEBSITE
Fax # lhurd@triumvirate.com
Email: jatwood@triumvirate.com
Format: ◉ PDF ○ EXCEL ○ GIS ○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOA 8260B	VOA 8270C	PCBs 8082	RCRA 8 6010B/7471A	Petro Hydrocarbons (volatile/extractable)	Pesticides/herbicides 8081A/8151	Eph, Vph
								M	M								
01	G Lopes Loam #1	1/20/10 9:30 am	1/20/10 9:30 am								✓						
02	G Lopes Loam #2	1/20/10 9:30 am	1/20/10 9:30 am									✓					
(*) 03	G Lopes Loam #3	1/20/10 9:30 am	1/20/10 9:30 am										✓	✓	✓	✓	X

(*) Per attached email, add Eph + Vph to work order 10A0386 for 48 hour TAT. MD 2/1/10

Comments:
(*) Per Jason A, OKay to lab preserve 8260 off sample from loam #3, run TPH 8100, 8260, 8082, RCRA 8, 8081 and herbicides MD 2/1/10

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Relinquished by: (signature)	Date/Time:
1		1/20/10 1:30
2		1-20-10 1350
3		1-20-10 1610
4		1/20/10 1610

Turnaround ††
◉ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Dissolved Metals
○ Field Filtered
○ Lab to Filter

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01028
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Sample Receipt Checklist

CLIENT NAME: Trihydrite RECEIVED BY: JDP DATE: 1/20/10

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes (No) Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber	1	8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	2	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2

Bisulfate _____ # DI Water _____ Time and Date Frozen: _____

Thiosulfate _____ Unpreserved _____

Do all samples have the proper pH: Yes No N/A

Meghan E. Kelley

From: Atwood, Jason N. [jatwood@triumvirate.com]
Sent: Monday, February 01, 2010 2:36 PM
To: chall@contestlabs.com; mkelley@contestlabs.com
Subject: Work Order 10A0386

Hi Meghan,

Per my conversation with Mr. Hall today, please use remaining sample material to run analysis for EPH / VPH per MA DEP for the G Lopes Loam sample listed on the above work order. Please rush this sample for results asap at the applicable surcharge rate.

Thanks
Jason

Jason Atwood
Field Service Manager
61 Inner Belt Rd, Somerville, MA 02143

p: 617.715.8997
m:781.413.5625

TRIUMVIRATE ENVIRONMENTAL | triumvirate.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	10A0386
Project Location:	New Bedford, MA	MADEP RTN1[1]:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

10A0386-01

Sample Matrices: Soil

MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH (X)	6020 ( )	9014M[2] ( )
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH (X)	7000 S[3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M -- SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S -- SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

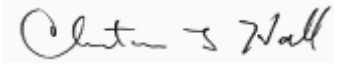
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑ Yes	☐ No[1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑ Yes	☐ No[1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
D	VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	☑ Yes	☐ No[1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	☐ Yes	☑ No[1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:		Position:	Project Chemist Supervisor
Printed Name:	Christopher J. Hall	Date:	02/03/10

APPENDIX G

MassDEP Verbal Approval

From: Cote, Molly (DEP) [mailto:molly.cote@state.ma.us]
Sent: Tuesday, July 05, 2011 4:36 PM
To: Cheryl L. Henlin; Pinaud, Leonard (DEP); Sullivan, Dave (Lowell,MA-US)
Subject: RE: Time for a quick chat?

I am out of the office. I talked to Ron Thursday evening and Friday morning. I explained MassDEPs opinion that we had not considered leaving the trees to be a major modification. You may recall that the RAM Plan was relatively silent regarding tree removal. I asked Ron for an email which he sent Friday. I explained that as longf as enough soil can be removed to acheive a level of no significant risk for teh 0-3 foot zone, we would be OK. Anything less than that would not result in a permanent solution, which is what the City is trying to achieve. I am going by there in the morning on my way into the office. I can talk more tomorrow morning.

_____
From: Cheryl L. Henlin [Cheryl.Henlin@newbedford-ma.gov]
Sent: Tuesday, July 05, 2011 3:41 PM
To: Pinaud, Leonard (DEP); Sullivan, Dave (Lowell,MA-US)
Cc: Cote, Molly (DEP)
Subject: RE: Time for a quick chat?
Somewhat – we were wondering if Molly had talked to you about DPI's proposed approach to handling trees (Ron Labelle had gotten verbal approval from Molly to move forward with excavation today when he spoke with her Thursday evening), and a few more details on what Molly agreed to since we haven't been able to reach Ron.

Cheryl

From: Pinaud, Leonard (DEP) [mailto:leonard.pinaud@state.ma.us]
Sent: Tuesday, July 05, 2011 10:54 AM
To: Sullivan, Dave (Lowell,MA-US)
Cc: Cheryl L. Henlin; Cote, Molly (DEP)
Subject: RE: Time for a quick chat?

Sorry Dave;

I was out on Friday……anything pressing?

Len

_____
Leonard J. Pinaud | Chief, State & Federal Site Management Section MassDEP | Bureau of Waste Site Cleanup | Southeast Regional Office 20 Riverside Drive, Lakeville, Massachusetts, USA 02347

T + 508.946.2871 | F + 508.947.6557

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mass.gov/dep/public/publications/enews.htm<http://www.mass.gov/dep/public/publications/enews.htm>

Visit our web site: mass.gov/dep<http://www.mass.gov/dep>

From: Sullivan, Dave (Lowell,MA-US) [mailto:DSullivan@trcsolutions.com]
Sent: Friday, July 01, 2011 12:03 PM
To: Pinaud, Leonard (DEP)
Cc: Cheryl L. Henlin
Subject: Time for a quick chat?

Please let me know.

Thanks,

Dave

David M. Sullivan, LSP
Senior Project Manger

TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854

Office: 978-656-3565
Mobile: 978-758-2809
Fax: 978-453-1995
E-mail: dsullivan@trcsolutions.com<mailto:dsullivan@trcsolutions.com>

APPENDIX H

MassDEP Conditional Approval Letter of the RAM Plan Modification

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

August 1, 2011

Scott Alfonse, Director
Office of Environmental Stewardship
City of New Bedford – City Hall
133 William Street
New Bedford, Massachusetts 02740

RE: **NEW BEDFORD**
Release Tracking Number: 4-0015685
Parker Street Waste Site
New Bedford High School
CONDITIONAL APPROVAL TO CONDUCT A RELEASE ABATEMENT MEASURE

Dear Mr. Alfonse:

On July 22, 2011, the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup (MassDEP), received a Release Abatement Measure Plan Modification (the RAM Plan Modification) for the Parker Street Waste Site (the Site) submitted in accordance with M.G.L. c.21E and 310 CMR 40.0000, the Massachusetts Contingency Plan (the MCP), regarding ongoing response actions on the New Bedford High School (NBHS) Campus. The RAM Plan Modification, dated June 2011 was prepared on behalf of the City of New Bedford (the City) by TRC Companies, Inc. (TRC). The RAM Plan Modification is intended to amend the RAM Plan that was submitted to MassDEP on April 6, 2011, in part to satisfy a condition specified in MassDEP's written Conditional Approval to Conduct a RAM, dated April 15, 2011.

As described in the RAM Plan Modification, activities to be conducted or eliminated, that have been modified since the submittal of the April 6, 2011 RAM Plan, include, but are not limited to:

- Installation of subsurface stormwater retention structures in Exposure Point Area HS-5 (the Flag Pole Area);
- Implementation of risk reduction measures, including placement of a geotextile fabric and six inches of crushed stone, in the area identified as Exposure Point Area HS-8 to support the future use of that portion of the NBHS Campus as a solar park. Note that this area was originally proposed to be paved, as described in the April 6, 2011 RAM Plan;

- Elimination of the on-Site crushing of asphalt and concrete materials generated from the removal of existing surfaces and reuse of the crushed material as construction material;

- Installation of a chain link fence around the perimeter of the northern portion of the property for the purpose of providing Site security. Note that this fence has already been erected.

- Attempts to retain existing mature trees including excavation of soils to the extent possible around existing root systems;

- Use of paving in select areas to prevent direct contact exposure impacted soil, and any excavation and grading to support the paving;

The remaining portions of the RAM Plan (and the conditions imposed by MassDEP) remain in effect.

MassDEP acknowledges that the City posted public notices of the availability of a draft version of the RAM Plan and held a public comment period on the Draft RAM Plan Modification from July 1, 2011 through July 20, 2011. As indicated in an email correspondence from the City to MassDEP on July 21, 2011, no written comments were received by the City regarding the RAM Plan Modification.

Therefore, pursuant to 310 CMR 40.0443(2), MassDEP hereby provides conditional approval to the City to implement the RAM as detailed and modified in the above referenced submittals, and in accordance with the conditions described herein.

1. All of the conditions, as previously listed in MassDEP's April 15, 2011 Conditional Approval remain in place, with the following exception: provided the perimeter fence is in place and secure, if an excavation is to remain open at the end of the work day (inside the perimeter fence only), the excavation does not have to be covered with steel plates. The excavation should; however, be clearly marked with cones, caution tape or some other method to alert on-site workers that it is an open excavation.

2. Pursuant to 310 CMR 40.0443(3) the RAM activities shall be conducted as described in the RAM Plan, as modified in the RAM Plan Modification, and as approved herein. Any proposed modifications to the RAM Plan must be submitted in writing to MassDEP for review and approval prior to implementation.

Please be advised that, pursuant to 310 CMR 40.0445(1), a RAM Status Report must be submitted to MassDEP within one hundred and twenty (120) days from the date of MassDEP's receipt of the original RAM Plan, and every six (6) months thereafter until a RAM Completion Report, prepared in full accordance with 310 CMR 40.0446 is submitted.

Please note that this Site shall not be deemed to have had all of the necessary and required response actions taken unless and until all substantial hazards have been eliminated and a level of No Significant Risk exists or has been achieved in compliance with M.G.L. c.21E and the MCP.

All inquiries regarding this matter should be directed to Molly Cote at the letterhead address or by calling (508)946-2792. All future communication regarding this matter must reference Release Tracking Number: **4-0015685.**

Sincerely,

Leonard J. Pinaud, Chief
State & Federal Site Management Section
Bureau of Waste Site Cleanup

P/MC/lg

W:\BWSC\Document Archive\4-0015685.New Bedford.RAM.APWRIT.08-01-2011

ec: Scott W. Lang, Mayor - City of New Bedford
scott.lang@newbedford-ma.gov

City of New Bedford - Health Department
Marianne.DeSouza@newbedford-ma.gov

Eddie Johnson, President – C.L.E.A.N.
jheljhnsn6@aol.com

Kim Tisa, USEPA Region 1
tisa.kimberly@epa.gov

David Sullivan, LSP - TRC
DSullivan@TRCSOLUTIONS.com

MassDEP - SERO
ATTN: David Johnston, Acting Regional Director
Millie Garcia-Serrano, Deputy Regional Director
Data Entry