IMMEDIATE RESPONSE ACTION STATUS REPORT

New Bedford High School Substantial Release Migration / Critical Exposure Pathway
230 Hathaway Boulevard
New Bedford, Massachusetts
Release Tracking Number 4-22409

Prepared for:

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Prepared by:

TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854
(978) 970-5600

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TABLE OF CONTENTS

I BACKGROUND 1

II IMMEDIATE RESPONSE ACTION STATUS REPORT (310 CMR 40.0425) 6

III REFERENCES 15

TABLES

Table 1: Summary of Analytical Results for Aqueous Seep Samples (December 2009 through January 2010)
Table 2: Summary of Analytical Results for Groundwater Samples (2008 through 2011)
Table 3: Summary of Analytical Results for Indoor Air Samples (2010 and 2011)
Table 4: Summary of Analytical Results for Grab Samples (April through August 2011)
Table 5: Summary of Analytical Results for Oil Samples (August 2010 through August 2011)
Table 6: Summary of Analytical Results for Absorbent Sock Sample (August 2011)
Table 7: Groundwater Elevations

FIGURES

Figure 1: Site Aerial Photograph
Figure 2: Site Plan with Sampling Locations
Figure 3: Detail of Site Plan in Vicinity of Mechanical Room
Figure 4: Detail of Site Plan with Approximate Underdrain System
Figure 5: Estimated Groundwater Contour Map – June 24, 2011

APPENDICES

Appendix A: Laboratory Data Reports
Appendix B: Copies of Uniform Hazardous Waste Manifests
Appendix C: Groundwater Monitoring Sampling Logs

Immediate Response Action Status Report

New Bedford High School – Substantial Release Migration / Critical Exposure Pathway

230 Hathaway Boulevard, New Bedford, Massachusetts

Release Tracking Number (RTN) 4-22409

TRC Project Number: 115058

November 22, 2011

TRC Environmental Corporation (TRC) is submitting this Immediate Response Action Status Report (IRA Status Report) to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City) through the City's Department of Environmental Stewardship and per the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). This IRA Status Report addresses a Condition of Substantial Release Migration (SRM) at the New Bedford High School (NBHS) campus located at 230 Hathaway Boulevard in New Bedford, Massachusetts (the "Site") as defined under 310 CMR 40.0006 of the MCP. The City reported the condition to the MassDEP per 310 CMR 40.0313(5) and 310 CMR 40.0412(2) via telephone with TRC on January 29, 2010 at approximately 11:05 AM. MassDEP orally approved IRA assessment and mitigation activities at the Site, and assigned Release Tracking Number (RTN) 4-22409. An IRA Plan was submitted by the City to MassDEP on March 22, 2010 (TRC, 2010a). The NBHS Campus is part of the Parker Street Waste Site (PSWS) that is tracked by MassDEP under RTN 4-15685. Response actions at the PSWS are conducted under a Special Project designation (310 CMR 40.0060). The location of the Site is shown in Figure 1.

This IRA Status Report is organized as follows: Section I (Background) briefly summarizes information on TRC's involvement with the Site, the circumstances of the release, and the response actions conducted at the Site under MassDEP oral approval. Section II (IRA Status Report) provides the contents of an IRA Status Report as set forth under the MCP, specifically 310 CMR 40.0425. Section III (References) lists information sources relied upon in the preparation of this IRA Status Report.

I BACKGROUND

The SRM condition was discovered during investigation of water pooled on the lower floors of the Mechanical Room (Room B-114) of the NBHS building. Several samples of the pooled water, which appeared to be seeping through cracks or seams in the floor, were collected. Analytical results for these samples suggest the potential for chlorinated volatile organic compounds (VOCs) to be present in indoor air in the building, leading to the reporting condition and the initiation of IRA assessment activities.

(a) Release Discovery

A detailed description of the release discovery in the Mechanical Room of the NBHS building is presented in the IRA Plan submitted to MassDEP on March 22, 2010 and subsequent IRA Status Reports associated with RTN 4-22409. A brief summary is provided herein.

On December 2, 2009, aqueous samples were collected from four locations (BRM-S-1 through BRM-S-3 and FIP-S-1) where water had pooled on the lower floor of the Mechanical Room of the NBHS building (see Figures 2 and 3). The pooled water appeared to have seeped into the Mechanical Room through cracks and seams in the lower concrete floor. The detected concentration of vinyl chloride (VC) in seep sample BRM-S-3 (2.1 micrograms per liter; ug/L) was greater than the MCP Method 1 GW-2 groundwater standard of 2 ug/L (see Table 1).

To verify the detection of VC, additional samples of the pooled water were collected for VOCs on January 7, 2010. As indicated in Table 1, chlorinated VOCs were not detected in two out of four samples (BRM-S-1 and BRM-S-2). Chlorinated VOCs were detected in sample BRM-S-3 (chlorobenzene, 1,3-dichlorobenzene [1,3-DCB], 1,4-dichlorobenzene [1,4-DCB], cis-1,2-DCE, trans-1,2-DCE, trichloroethylene [TCE] and VC) and FIP-S-1 (cis-1,2-DCE and trans-1,2-DCE).

On January 6 and 7, 2010, groundwater samples were collected from monitoring wells MW-4, MW-5, MW-6, and MW-7 constructed on the NBHS campus in 2008 (see Figure 2). Chlorinated VOCs were not detected in two out of the four aforementioned monitoring wells (MW-4 and MW-6). Chlorinated VOCs were detected in groundwater samples from two of the monitoring wells (MW-5 and MW-7). Specifically, cis-1,2-DCE was detected at a concentration of 3.7 ug/L (4.1 ug/L in its duplicate) in monitoring well MW-5, located inside the Boiler Room and adjacent to the Mechanical Room, which is below MCP Method 1 GW-2 groundwater standard (see Table 2). Also, tetrachloroethylene (PCE; 63 ug/L) and VC (3.4 ug/L) were detected in monitoring well MW-7, located in front of NBHS, near the flagpole. The concentrations of PCE and VC in the sample from MW-7 were above their respective MCP Method 1 GW-2 groundwater standards (see Table 2).

In parallel with the aforementioned investigation activities, the City evaluated building structural features that might influence fate and transport in the groundwater beneath the NBHS building.

(b) Release Reporting

On January 28, 2010 at approximately 3:30 PM, the City's Department of Environmental Stewardship was advised that the seep and impacted water and the underdrain system represented two potential SRM conditions as defined in 310 CMR 40.0006:

- Releases to the groundwater that have migrated or are expected to migrate more than 200 feet per year; or
- Releases to the groundwater or to the vadose zone that have resulted or are within one year likely to result in the discharge of vapors into school buildings or occupied residential dwellings.

Either of these conditions constitute a 72-hour regulatory reporting obligation to the MassDEP in accordance with 310 CMR 40.0313(5).

The SRM conditions described above were reported by the City to the MassDEP via telephone with TRC on January 29, 2010 at approximately 11:05 AM. MassDEP orally approved the IRAs at the Site, and assigned RTN 4-22409.

The orally-approved IRA consisted of the following:

- Monitoring of indoor air locations, including the Mechanical Room, for VOCs with expedited analysis. Recognizing that indoor air in the Mechanical Room may reflect materials stored in this area, MassDEP suggested that an inventory of chemicals stored at the NBHS building, relocation of indoor chemical sources, and ventilation of the Mechanical Room would be appropriate prior to re-sampling in this area;
- Re-sampling of seeps in the Mechanical Room; and
- Sealing of the floor seep.

(c) Analysis for a Potential Imminent Hazard

An evaluation into whether the VOC concentrations in the seep were associated with a potential Imminent Hazard (IH) Condition was conducted based on fate and transport modeling of seep-water VOC concentrations to indoor air concentrations and subsequent risk and hazard estimation. The potential air concentrations in the Mechanical Room where the seeps were located were mathematically modeled. The potential concentrations of chlorinated VOCs in the air were calculated using the equation in the EPA's *Risk Management Program Guidance for Offsite Consequence Analysis* (EPA, 2009) to calculate evaporation rates of water and VOCs as functions of air velocity over the pooled seep water to estimate the mass balance for all detected compounds. The initial risk evaluation, based on the modeled indoor air concentrations, concluded that an IH condition was not present (see Appendix A of the IRA Plan).

Indoor air data was also collected in the field using a photoionization detector (PID) and TCE- and VC-specific Draeger tubes, neither of which indicated the presence of measurable VOC impacts in the breathing zone in the Mechanical Room where the seep water was present. The Draeger Tube field screening activity included TCE tubes, with a measuring range from 2 to 50 parts per million by volume (ppmv) and VC tubes, with a measuring range from 0.5 to 5 ppmv. Twenty-one locations were sampled, including one location several inches above seep BRM-S-3. The lower end of these ranges is adequate to determine that an IH Condition is not present.

The indoor air results were evaluated by performing site-specific risk and hazard calculations for each room where an indoor air sample had been collected. The updated risk hazard calculations, provided in Appendix D of the IRA Status Report dated May 31, 2011, assume a chronic worker exposure scenario (8 hours of exposure per day, 250 days per year for 27 years). The calculations indicated that risks and hazards are at or below the MCP Risk Limits of an Excess Lifetime Cancer Risk (ELCR) of 1E-05 and a Hazard Index (HI) of 1 for each room

evaluated. The site-specific risk and hazard calculation protocol is consistent with that conducted for the neighboring KMS for VOCs and polychlorinated biphenyls (PCBs).

The evaluation indicates that, based on the sampling conducted in January, April and August 2010 and April 2011, there is no IH Condition or chronic risk/hazard above MCP risk limits associated with current indoor air exposures. All compounds detected in indoor air were included in the risk and hazard calculations even though some of the detections may be associated with VOC sources unrelated to vapor intrusion.

(d) IRA Activities Performed Prior to this Status Period

Following the reporting of the release condition to MassDEP on Friday, January 29, 2010, the City undertook investigations of indoor air, subslab soil vapors, groundwater, aqueous seeps, storm sewer infrastructure, and sanitary sewer infrastructure to evaluate the SRM and the nature and extent of impacts at NBHS. Sample locations are shown on Figure 2.

The results of IRA investigation activities conducted prior to this IRA Status Report are detailed in the following regulatory documents:

- *Immediate Response Action Plan – New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* March 2010.
- *Immediate Response Action Status Report - New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* May 2010.
- *Immediate Response Action Status Report - New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* November 2010.
- *Immediate Response Action Plan Modification – New Bedford High School, 230 Hathaway Boulevard, New Bedford, Massachusetts.* January 2011.
- *Immediate Response Action Status Report - New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* May 2011.

IRA Plan Modification

The IRA Plan Modification (TRC, 2011a) dated January 18, 2011 added to the previously approved IRA activities and potential CEP mitigation measures the removal of chlorinated VOC-impacted groundwater in the vicinity of MW-27. The specific activities outlined in the IRA Plan Modification included:

- **Extraction -**One or more short-term pumping events (Total Fluid Extraction [TFE]) at monitoring well MW-27R;
- **Containerization -**Containment of extracted groundwater in the vacuum truck;

- **Disposal -**Off-site disposal of extracted groundwater at an appropriate facility; and
- **Groundwater sampling -**Collection of post-extraction groundwater samples in accordance with EPA Region 1 low-flow sampling techniques.

On February 23, 2011, the MassDEP issued an approval of the IRA Plan Modification. A copy of the approval letter was included as Appendix B of the IRA Status Report submitted to MassDEP on May 31, 2011.

Previous Total Fluid Extraction

Based on the October and November 2010 groundwater sampling results, the lateral and vertical extent of VOC impacts in the vicinity of the Mechanical Room became more defined. Because significant concentrations of chlorinated VOCs were not measured in samples collected from any of the surrounding monitoring wells, the mass of chlorinated VOCs was judged to be relatively small. Targeted source-area multi-phase extraction (also known as total fluid extraction, or TFE) was selected to achieve contaminant mass reduction in the short-term.

The IRA Plan Modification proposed to conduct one or more short-term pumping events at monitoring well MW-27R, extracting both groundwater and soil vapors from this well via TFE using a vacuum truck (see Figures 2 and 3). The original one-inch well installed as MW-27 was supplemented on December 28 and 29, 2010 with the four-inch diameter well (MW-27R) to allow for more efficient groundwater extraction. Newly installed well MW-27R is located immediately adjacent to monitoring well MW-27. Monitoring well MW-27 was subsequently abandoned in place by sealing with bentonite on March 21, 2011.

A vacuum seal manifold was fabricated for the vacuum truck and the initial one-day pumping event was conducted during the NBHS school vacation week on February 25, 2011. The vacuum truck and operator were provided by Triumvirate Environmental, Incorporated (TEI) of Somerville, Massachusetts and TRC provided oversight during all TFE activities. A total of approximately 220 gallons of impacted groundwater was extracted from well MW-27R during the February 25, 2011 event.

Based on subsequent groundwater sampling results three additional TFE events were conducted on March 21, 2011, April 5, 2011 and April 25, 2011 with total removals of approximately 490 gallons, 609 gallons and 671 gallons, respectively. Following the initial TFE event, in addition to vacuum extraction from well MW-27R, a submersible pump was used to pump impacted groundwater from monitoring well MW-32. As described in the IRA Plan Modification, following each pumping event, groundwater samples were collected from monitoring wells in the vicinity of the TFE activities.

A detailed description of IRA-related activities conducted since the submittal of the previous IRA Status Report dated May 31, 2011, including addition IRA Plan Modification activities, is provided in Section II below.

II IMMEDIATE RESPONSE ACTION STATUS REPORT (310 CMR 40.0425)

This IRA Status Report is organized according to the information needs set forth under 310 CMR 40.0425(3)(a) through (e) of the MCP. This section describes activities performed subsequent to activities described in IRA Plan (TRC, 2010a), the previous IRA Status Reports (TRC, 2010b, TRC, 2010c and TRC, 2011b) and in the IRA Plan Modification (TRC, 2011a). The status period for this report is from May 31, 2011 through November 29, 2011.

(a) The Status of Assessment and/or Remedial Actions

The detection of chlorinated VOCs in groundwater (MW-27, MW-28 and MW-32), seep water (BRM-S-3 and FIP-S-1), and indoor air (TRC-IA-1) confirms a CEP in the Mechanical Room at NBHS. During this reporting period, the City continued to implement IRA Plan Modification activities and conducted supplemental investigatory sampling. The IRA Plan Modification added the removal of chlorinated VOC-impacted groundwater in the vicinity of MW-27 by pumping and vacuum extraction (TFE) and off-site disposal to the previously approved IRA activities. The results of additional TFE and investigation activities are detailed below. Laboratory data packages associated with samples discussed in the following sections are included in Appendix A.

The MassDEP-approved IRA Plan also outlined potential CEP mitigation measures to be undertaken during the IRA. Those mitigation measures implemented to date are described in the IRA Plan (TRC, 2010a), the previous IRA Status Reports (TRC, 2010b, TRC, 2010c and TRC, 2011b) and in the IRA Plan Modification (TRC, 2011a). Evaluation and implementation of select mitigation measures (e.g., seep mitigation) are ongoing. Following TRC's most recent inspection on April 25, 2011, additional seep mitigation measures were not implemented during this reporting period. The application of the Contite® penetrating mortar by Hydra Concrete Waterproofing (Hydra) of Holliston, Massachusetts was successful in eliminating seepage throughout a large portion of the Mechanical Room. Given the seasonally low water table and associated decreased hydraulic head, additional crack sealing activities have not been implemented to date. However, limited seeps historically present on the south side of the Chiller Deck in the vicinity of the access door to the Boiler Room (C-101) and within the former incinerator pit will continue to be monitored by City personnel.

Total Fluid Extraction between February and April 2011

Four TFE events were conducted between February and April 2011 with total removal of approximately 1,990 gallons. As described in the IRA Plan Modification, following each pumping event, groundwater samples were collected from monitoring wells in the vicinity of the TFE activities. A further evaluation of the vacuum extraction events was conducted following the fourth TFE event and receipt of the subsequent groundwater sampling results.

The post-extraction groundwater concentrations of chlorinated VOCs measured in well MW-27R increased after the first two TFE events (February 25, 2011 and March 11, 2011) prior to

decreasing over the two subsequent TFE events (April 5, 2011 and April 25, 2011). However, TCE concentrations measured in samples collected 3 to 4 days after a TFE event were higher (i.e., by a factor of 3 to 10) compared to groundwater concentrations measured after 10 to 20 days. For example, TCE was detected at a concentration of 410,000 ug/L in MW-27R four days after the second vacuum event, compared to a TCE concentration of 35,000 ug/L detected in groundwater from the same well 15 days after the same event (based on sampling conducted prior to the third vacuum extraction event). This suggests that the TCE concentrations observed in MW-27R shortly after an extraction event (3 to 4 days) represent an emulsion caused by localized agitation from the high rate of vacuum imposed on the formation around the well. The episodic and intense energy imparted on the water and separate phase product drawn to the well created a liquid-liquid dispersion at and/or near the extraction point. As the interfacial tensions between the separate phases of the emulsion disintegrates over time, the TCE re-enters the dissolved phase. Hence, the results obtained after 10 to 20 days are more likely to be representative of dissolved-phase aquifer conditions. This demonstrates the efficacy of the vacuum extraction mass removal approach.

Increased chlorinated VOC concentrations were also detected in nearby monitoring well MW-32. In October 2010, prior to initiating TFE events, chlorinated VOCs were detected at a concentration of 1.1 ug/L in MW-32. Following the first TFE event, the TCE concentration in this well increased to 17,000 ug/L. The TCE concentration rose further following the second extraction event, prior to decreasing significantly following the subsequent extraction events (see Table 2). Once again, this demonstrates the efficacy of the vacuum extraction mass removal approach.

The presence of TCE in MW-32 is interpreted as potentially being associated with the flow of impacted groundwater through a branch of the underdrain network that runs from the vicinity of MW-27R near MW-32 (see Figure 4). Monitoring well MW-27R is located adjacent to an upgradient reach of an underdrain line that flows towards the southeast. A branch (lateral) of this same drain network passes near to MW-32. Flow in the underdrains potentially occurs during periods of seasonal/weather-related high water table. Based on historical groundwater elevation data for monitoring wells located in the vicinity of the Mechanical Room, the groundwater elevation could be sufficiently high to facilitate flow in the underdrain system during portions of the year (seasonal high water table).

Indoor Air Sampling, April 2011

As described in the IRA Status Report submitted on May 31, 2011, following the detection of VOCs in monitoring well MW-32 on March 8, 2011 and March 25, 2011, indoor air samples were collected from selected rooms located along the underdrain line flowing from the vicinity of MW-27R, past MW-32, and discharging to a footing drain near Room B-106 (Storage Room) to help evaluate the potential impact of migration in the underdrain. Additional indoor air samples were collected on April 8, 2011 from the following bottom floor interior locations at NBHS, illustrated on Figure 4:

- Storage Room (B-106) – Sample designation B-106

- Senior Honors Lounge (B-109) – Sample designation B-109 (duplicate analysis performed)
- Can Wash (B-147) – Sample designation B-147

As indicated in Table 3, each of the samples (including the field duplicate) exhibited concentrations of TCE above the MassDEP Commercial Indoor Air Threshold Values[1](IATV; MassDEP, 2010). As previously noted, there is no IH condition or chronic risk/hazard above MCP risk limits associated with current indoor air exposures. No additional VOCs were detected in excess of Commercial IATVs. Based on these data, the potential for some of the VOCs in indoor air to originate from subsurface impacts exists. However, immediate sampling of the rooms did not allow for the inventory and/or relocation of products stored in these areas. Therefore, the potential also exists for VOCs in indoor air to originate from other sources.

Total Fluid Extraction, July 2011

A fifth TFE event was conducted on July 28, 2011, removing approximately 609 gallons of groundwater. Consistent with the previous TFE events, a submersible pump was used to pump impacted groundwater from monitoring well MW-32 coincident with the TFE in ME-27R. Upon arrival to the site, the vacuum truck tank was noted by TRC onsite personnel as containing approximately 30 gallons of oil.

On August 2, 2011, the City was notified by TEI that the waste shipment was not accepted by United Industrial Services (United) of Meriden, Connecticut for disposal. Pursuant to United's Waste Analysis Plan, the delivered material was analyzed to verify that the material matched the pre-shipment waste profile for proper storage, treatment and/or recycling in accordance with the receiving facility's permit criteria. The sample collected by United (S080211-038) from the vacuum truck exhibited total PCB Aroclors at a concentration of 160 parts per million (ppm; see Table 4). The City notified the MassDEP and EPA Region 1 PCB Coordinator of the rejected shipment via telephone with TRC on August 2, 2011.

Although the source of the Aroclor was unclear, the City accepted the rejected vacuum truck load back to the NBHS campus on August 3, 2011. TEI transferred the contents of the vacuum truck into Department of Transportation (DOT) 500-gallon totes and 55-gallon drums. The vacuum truck was decontaminated and the rinse water was also drummed for offsite disposal. Potentially impacted equipment (e.g., vacuum hose) was secured in a cubic yard box for offsite disposal. The totes, drums, and cubic yard box were relocated to the secure City-owned Shawmut Avenue Transfer Station pending offsite disposal. All containers were appropriately labeled/marked as to the waste contents.

The detection of PCBs required the waste material to be classified as PCB Remediation Waste and required EPA regulation under the Toxic Substance Control Act (TSCA). The containerized

[1] The MassDEP has established indoor air threshold values to indicate when additional characterization is appropriate at a site. The screening levels are set at Hazard Quotient (HQ) of 0.2, an excess lifetime cancer risk (ELCR) of 1E-06, a typical indoor air background value or an analytical detection limit. A site-specific evaluation is recommended in situations where these threshold values are exceeded.

contents of vacuum truck, the vacuum truck decontamination fluids and the cubic yard box containing the vacuum truck hose were transported offsite for disposal at the CWM Chemical Services, LLC facility in Model City, New York on August 16, 2011, August 19, 2011 and August 24, 2011, respectively. Copies of the Uniform Hazardous Waste Manifest associated with the shipments are included in Appendix B.

Following the detection of PCBs in the waste shipment by the receiving facility, the City expeditiously evaluated and investigated the source and extent of potential PCB impacts in the vicinity of the Mechanical Room. A discussion of those activities is provided in Section II(b) below.

(b) New Site Information and Data

Supplemental investigation activities completed under the IRA during this reporting period included: additional groundwater sampling in association with the July 2011 TFE event, additional investigation of dense non-aqueous phase liquid (DNAPL) detected in monitoring well MW-27R, and supplemental well gauging activities.

Supplemental Investigative Sampling

On July 27, 2011, prior to the fifth vacuum extraction event, groundwater samples were collected from monitoring wells in the vicinity of MW-27R. A total of four (4) monitoring wells (MW-27D, MW-27R, MW-28 and MW-32) were sampled in accordance with EPA Region 1 low-flow sampling techniques. The wells locations are illustrated on Figures 2 and 3. Groundwater sampling logs associated with the sampling event are provided in Appendix C. The groundwater samples were submitted to Alpha for analysis of VOCs (SW-846 Method 8260B).

The results of these analyses are summarized in Table 2. Chlorinated compounds were detected in MW-27R (including duplicate analysis) in excess of MCP Method 1 GW-2 groundwater standards including VC (1,900 ug/L), trans-1,2-DCE (2,200 ug/L), TCE (16,000 ug/L) and cis-1,2-DCE (14,000 ug/L). Vinyl chloride was detected in monitoring wells MW-27D and MW-28 (35 ug/L and 36 ug/L, respectively) at concentrations in excess of MCP Method 1 GW-2 groundwater standards. TCE (87 ug/L and 2,600 ug/L, respectively) and cis-1,2-DCE (170 ug/L and 200 ug/L, respectively) were also detected in monitoring wells MW-28 and MW-32 at concentrations in excess of MCP Method 1 GW-2 groundwater standards.

The fifth TFE event was conducted on July 28, 2011. Following removal of approximately 609 gallons, a grab sample (VC072811) was collected from the vacuum truck prior to leaving the Site. The grab sample was submitted to Alpha for analysis of VOCs (SW-846 Method 8260B). The results of this analysis are summarized in Table 4. The grab extracted groundwater sample exhibited only TCE (180 ug/L) at a concentration in excess of MCP Method 1 GW-2 groundwater standards.

Consistent with previous extraction episodes, groundwater samples were collected from monitoring wells in the vicinity of the TFE activities several days after the TFE event. On

August 2, 2011, a total of three (3) monitoring wells (MW-27R, MW-28 and MW-32) were sampled in accordance with EPA Region 1 low-flow sampling techniques. The well locations are illustrated on Figures 2 and 3. Groundwater sampling logs associated with the sampling event are provided in Appendix C. The groundwater samples were submitted to Alpha for analysis of VOCs (SW-846 Method 8260B). The results of these analyses are summarized in Table 2. Chlorinated compounds were detected in MW-27R in excess of MCP Method 1 GW-2 groundwater standards including VC (540 ug/L), trans-1,2-DCE (940 ug/L), TCE (23,000 ug/L) and cis-1,2-DCE (5,400 ug/L). Vinyl chloride was detected in monitoring well MW-27D at a concentration in excess of MCP Method 1 GW-2 groundwater standards (42 ug/L). TCE (52 ug/L and 2,500 ug/L, respectively) and cis-1,2-DCE (140 ug/L and 220 ug/L, respectively) were also detected in monitoring wells MW-28 and MW-32 (including duplicate analysis) at concentrations in excess of MCP Method 1 GW-2 groundwater standards.

On August 2, 2011, United performed screening analyses on a sample from the vacuum truck. When this sample (S080211-038) exhibited total PCB Aroclors at a concentration of 160 ppm (see Table 4), United rejected the shipment and the vacuum truck returned to the NBHS campus.

On August 2, 2011, in response to the notification by TEI to the City that the waste shipment was rejected by the receiving facility, TRC collected grab groundwater samples from the two (2) monitoring wells included in the July 28, 2011 extraction event (MW-27R and MW-32) to evaluate whether they were a potential source of the PCBs. Due to the limited recoverable volume, the collection of a DNAPL sample for laboratory analysis was not feasible on this date. The grab samples were submitted to Alpha for analysis of PCB Aroclors (SW-846 Method 8082) and total petroleum hydrocarbons (TPH; EPA Method 8015M). The grab groundwater sample results are summarized in Table 4. Total PCB Aroclors and TPH were detected in monitoring well MW-27R at concentrations of 161 ug/L and 262 ug/L, respectively. PCB Aroclors and TPH were not detected in MW-32.

The City accepted the vacuum truck load back to the NBHS campus on August 3, 2011. Following transfer of the contents of the vacuum truck into DOT 500-gallon totes and 55-gallon drums by TEI, additional grab samples of the containerized waste water (VAC EFF) and oily material (VAC NAPL) were collected for further characterization. These grab samples were submitted to Alpha for analysis of PCB Aroclors (SW-846 Method 8082) and TPH (EPA Method 8015M). The grab waste water and oily material sample results are summarized in Table 4 and 5, respectively. Total PCB Aroclors and TPH were detected in waste water sample "VAC EFF" at concentrations of 279 ug/L and 43,000 ug/L, respectively. Total PCB Aroclors and TPH were detected in product sample "VAC NAPL" at concentrations of 179 ug/L and 486,000 ug/L, respectively. The laboratory reported that these samples contained material eluting in the mid to high molecular weight ranges of the chromatogram. Based on the laboratory reference libraries, the material in the two grab samples potentially represented a combination of fuel oil #2 and diesel fuel.

On August 3, 2011, an absorbent sock was also placed in monitoring well MW-27R to selectively absorb DNAPL from the aqueous phase. The absorbent sock was temporarily removed from the monitoring well MW-27R on August 5, 2011 and a DNAPL-stained section

(sample MW27R WIPE) was cut from the absorbent sock and submitted to Alpha for analysis of PCB Aroclors (SW-846 Method 8082). Alpha processed the sample as a wipe sample to obtain a qualitative indicator of the presence of PCBs in the DNAPL. The absorbent sock sample results are summarized in Table 6. Total PCB Aroclors were at a concentration of 17,500 micrograms per Absolute (ug/Abs)[2].

Following receipt of the absorbent sock laboratory analytical results, the City updated the MassDEP and EPA Region 1 PCB Coordinator of the status of IRA activities related to the PCB impacts in the vicinity of the Mechanical Room via telephone with TRC on August 18, 2011. At that time the City confirmed planned additional investigation activities to determine composition of product detected in monitoring well MW-27R and efforts to determine the extent of the PCB impact.

A sample of the DNAPL in MW-27R was collected on August 22, 2011 to evaluate the specific chemical composition of the product. The grab DNAPL sample (MW-27R) was submitted for analysis of PCB Aroclors (SW-846 Method 8082) and TPH (EPA Method 8015M). The sample results are summarized in Table 5. The sample was not analyzed for VOCs due to the limited volume of recoverable separate-phase product from the monitoring well. Total PCB Aroclors and TPH were detected in at concentrations of 246,000 milligrams per kilogram (mg/kg) and 486,000 mg/kg, respectively. The laboratory reported that this sample contained material eluting in the mid to late molecular weight range of the chromatogram. Based on the laboratory reference libraries, the material exhibited hydrocarbons eluting in the lubricating oil range. The DNAPL analytical results from August 22, 2011, combined with previously reported VOC results collected on August 30, 2010 from a product sample collected from monitoring well MW-27 (subsequently replaced by MW-27R; see Table 5), indicates that the DNAPL present in the vicinity of the Mechanical Room is composed of petroleum (approximately 50% lubricating oil range hydrocarbons), PCB Aroclor 1254 (approximately 25%) and TCE (approximately 25%).

On August 24 and 25, 2011, additional groundwater samples were collected from monitoring wells in the vicinity of the TFE activities to further evaluate the lateral and vertical extents of groundwater VOC and PCB impacts. A total of eight (8) monitoring wells (MW-5, MW-5D, MW-27D, MW-27R, MW-28, MW-31, MW-32 and MW-33) were sampled in accordance with EPA Region 1 low-flow sampling techniques. The well locations are illustrated on Figures 2 and 3. Groundwater sampling logs associated with the sampling event are provided in Appendix C.

The groundwater samples were submitted to Alpha for analysis of VOCs (SW-846 Method 8260B) and Pace/Northeast Analytical, Incorporated (Pace/NEA) of Schenectady, New York for analysis of PCB Aroclors (SW-846 Method 8082). The results of these analyses are summarized in Table 2. Consistent with previous analytical results, no VOCs were detected in excess of MCP Method 1 GW-2 groundwater standards in monitoring well MW-5, MW-31 and MW-33. Monitoring well MW-5D exhibited TCE (31 ug/L) in excess of the MCP Method 1 GW-2 groundwater standard. Chlorinated compounds were detected in MW-27D, MW-27R (including

[2] The absorbent sock sample was handled by the laboratory as a wipe, in which the material was treated as a whole and extracted in solvent with the reporting units of ug/Abs. TRC subsequently received confirmation from the laboratory that the pre-extraction weight of the material sample was 2.58 grams.

duplicate analysis), MW-28 and MW-32 in excess of MCP Method 1 GW-2 groundwater standards. The concentrations of VOCs in monitoring well MW-27D generally decreased in comparison to the previous groundwater sampling event on July 27, 2011.

No PCB Aroclors were detected in monitoring well MW-5D. The detected concentrations of PCB Aroclors in the other seven (7) monitoring wells sampled on August 24 and 25, 2011 ranged from 0.0630 ug/L (MW-33) to 41.32 ug/L (MW-27R). Groundwater samples from (MW-27R [including duplicate analysis] and MW-28) exhibited total PCB Aroclors in excess of the MCP Method 1 GW-2 groundwater standard (see Table 2). The absence of significant concentrations of PCBs measured in samples collected from monitoring wells surrounding MW-27R indicates that the extent of the PCB impact is relatively limited and likely co-located with the chlorinated VOC impacts.

The City is currently evaluating remedial approach alternatives, including further investigation of the lateral and vertical extents of DNAPL in the vicinity of the Mechanical Room, options to control migration in the short term (e.g., pump and treat groundwater system), and a permanent remedy that meets both MassDEP and EPA remedial goals under TSCA. Additional investigatory activities and a determination of the remedial approach will be discussed in future regulatory submittals, including additional IRA Status Reports and/or an IRA Plan Modification.

Supplemental Groundwater Elevation Gauging

Prior to June 2011, five (5) synoptic well gauging events were performed at the NBHS campus on February 17, 2010, April 7, 2010, May 17, 2010, September 7, 2010 and January 20, 2011. Consistent with historic well gauging data, the groundwater was observed to generally flow from north to south across the NBHS campus. However, localized groundwater mounding has been observed in the vicinity of B-Block, immediately north of the Mechanical Room and, at a minimum, a seasonal high groundwater elevation was observed during the April 2010 gauging event. In addition, the extensive underdrain system beneath the NBHS building appears to divert groundwater to the storm sewer during high water events, and appears to influence the contour of the water table.

An additional synoptic well gauging event was conducted at the NBHS campus on June 24, 2011. Groundwater elevation data, including the previous synoptic well gauging events, are provided in Table 7. A revised interpreted groundwater contour map is presented as Figure 5. The groundwater contour map depicts a rise in the groundwater elevation throughout the NBHS campus when compared to the January 20, 2011 gauging event. Groundwater flow continues to generally trend from north to south across the NBHS campus, while shifting to a more southwesterly direction in the southern portion of the campus.

(c) Plans for the Management of Investigation or Remediation Waste

Prior to submittal of the IRA Plan Modification, activities had been limited to assessment and CEP mitigation measures at the NBHS campus. These activities generated a limited amount of investigation-derived wastes which was described in previous IRA Status Reports.

Impacted groundwater removed from monitoring wells MW-27R and MW-32 during previous TFE activities was pumped directly into the vacuum truck for temporary storage and transportation off-site for disposal. A total of approximately 1,990 gallons of groundwater were removed during the four prior TFE events. Impacted groundwater removed during TFE activities was transported off-site by TEI for disposal at United. Copies of the Uniform Hazardous Waste Manifest associated with each pumping event were included in the previous IRA Status Report (TRC, 2011b).

A fifth TFE event was conducted on July 28, 2011 and a total of approximately 609 gallons were removed from monitoring wells MW-27R and MW-32. The detection of PCBs in the extracted liquids required the waste material to be classified as PCB Remediation Waste and required EPA regulation under the TSCA. The containerized contents of the vacuum truck, the vacuum truck decontamination fluids and the cubic yard box containing the vacuum truck hose were transported offsite for disposal at the CWM Chemical Services, LLC facility in Model City, New York on August 16, 2011, August 19, 2011 and August 24, 2011, respectively. Copies of the Uniform Hazardous Waste Manifest associated with the shipments are included in Appendix B.

No other remediation waste has been generated or managed to date during IRA related activities.

No additional TFE events are anticipated as of the submittal of this IRA Status Report.

Descriptions of any shipping documents associated with the storage and transportation of additional remediation wastes generated under this IRA will be included in a future regulatory submittal.

(d) MassDEP-Required Information

Based on the sampling conducted in January, April and August 2010 and April 2011, there is no IH Condition or chronic risk/hazard above MCP risk limits associated with current indoor air exposures.

An IH screening evaluation was performed and submitted with the IRA Plan and an updated version was included in the previous IRA Status Reports submitted to MassDEP on May 24, 2010 and November 29, 2010. A further update was provided in the IRA Status Report dated May 31, 2011.

The presence of PCBs in groundwater in the vicinity of the Mechanical Room is unlikely to be contributing to concentrations of PCBs detected in indoor air samples collected from the NBHS. Indoor air samples collected from in the Mechanical Room (B-114) and adjacent shipping and receiving area (B-113) on February 23, 2011 were below the Acceptable Long-Term Average Exposure Concentration that was established by the EPA for the Keith Middle School (KMS) and NBHS PCB air monitoring programs of 0.3 micrograms per cubic meter ($\mu g/m^3$) total PCBs.

The extent of the groundwater PCB impact in the vicinity of the Mechanical Room is relatively limited. The three NBHS rooms (Room A-110-1, A-315-1, and A-203-2) where total PCBs have been detected in indoor air samples at levels greater than 0.3 µg/m3 are located outside the limits of groundwater PCB impacts in the vicinity of the Mechanical Room, are not located on the ground floor (A-203-2 and A-315-1) and/or are hydraulically side-gradient to the groundwater flow direction in the vicinity of the Mechanical Room (A-110-1).

No additional information has been requested by MassDEP.

(e) LSP Opinion

The objective of this IRA was to characterize groundwater, seep water, soil vapor and indoor air to determine if vapor migration has occurred, characterize VOCs in the groundwater, storm sewer lines, and sanitary sewer lines to determine if any VOC migration from the groundwater to the storm and sanitary sewer infrastructure has occurred and implement mitigation measures associated with an SRM condition at the NBHS building.

The IRA Plan Modification (TRC, 2011a) dated January 18, 2011 added to the previously approved IRA activities the removal of chlorinated VOC-impacted groundwater in the vicinity of MW-27.

As described herein, the City is currently evaluating remedial approaches, including further investigation of the lateral and vertical extents of DNAPL in the vicinity of the Mechanical Room, options to control migration (e.g., pump and treat groundwater system) and a viable permanent remedy that meets both MassDEP and EPA remedial goals under TSCA. Additional investigatory activities and a determination of the remedial approach will be discussed in future submittals, including additional IRA Status Reports and/or an IRA Plan Modification.

This IRA Status Report has been prepared in accordance with 310 CMR 40.0425 as set forth in the MCP.

November 22, 2011

David M. Sullivan, LSP
TRC Environmental Corporation
Licensed Site Professional No. 1488

Date

Stamp

III REFERENCES

EPA, 2009 Risk Management Program Guidance for Offsite Consequence Analysis, United States Environmental Protection Agency, Office of Solid Waste and Emergency Response, EPA 550-B-99-009, March 2009.

MassDEP, 2010 Risk Management Criteria - MassDEP Indoor Air Threshold Values, Vapor Intrusion Guidance – Interim Draft, December 2010.

TRC, 2010a *Immediate Response Action Plan, New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* Prepared for: City of New Bedford Department of Environmental Stewardship. Prepared by: TRC Environmental Corporation. March 2010.

TRC, 2010b *Immediate Response Action Status Report - New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* Prepared for: City of New Bedford Department of Environmental Stewardship. Prepared by: TRC Environmental Corporation. May, 2010.

TRC, 2010c *Immediate Response Action Status Report - New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* Prepared for: City of New Bedford Department of Environmental Stewardship. Prepared by: TRC Environmental Corporation. November, 2010.

TRC, 2011a *Immediate Response Action Plan Modification - New Bedford High School, 230 Hathaway Boulevard, New Bedford, Massachusetts.* Prepared for: City of New Bedford Department of Environmental Stewardship. Prepared by: TRC Environmental Corporation. January, 2011.

TRC, 2011b *Immediate Response Action Status Report - New Bedford High School Substantial Release Migration / Critical Exposure Pathway, 230 Hathaway Boulevard, New Bedford, Massachusetts.* Prepared for: City of New Bedford Department of Environmental Stewardship. Prepared by: TRC Environmental Corporation. May, 2011.

TABLES

Table 1
Summary of Analytical Results for Aqueous Seep Samples
(December 2009 through January 2010)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		BRM-S-1			BRM-S-2			BRM-S-3				FIP-S-1		
		Sample Date:		12/2/2009	1/7/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010
		GW-2	GW-3										Field Dup			
VOCs																
(ug/L)	Acetone	50,000	50,000	50 U	50 U	5.0 U	50 U	50 U	5.0 U	50 U	50 U	5.0 U	5.0 U	50 U	50 U	5.0 U
	tert-Amyl Methyl Ether (TAME)	NS	NS	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	2.0 U
	Benzene	2,000	10,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromobenzene	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromochloromethane	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromodichloromethane	6	50,000	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
	Bromoform	700	50,000	5.0 U	10 U	1.0 U	5.0 U	10 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U	5.0 U	10 U	1.0 U
	Bromomethane	7	800	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	5.0 U	5.0 U	2.0 U	2.0 U	5.0 U
	2-Butanone (MEK)	50,000	50,000	20 U	20 U	10 U	20 U	20 U	10 U	20 U	20 U	10 U	10 U	20 U	20 U	10 U
	n-Butylbenzene	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	sec-Butylbenzene	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	tert-Butylbenzene	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	tert-Butyl Ethyl Ether (TBEE)	NS	NS	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	2.0 U
	Carbon Disulfide	NS	NS	3.0 U	5.0 U	1.0 U	3.0 U	5.0 U	1.0 U	3.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	1.0 U
	Carbon Tetrachloride	2	5,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**9.5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Chlorodibromomethane	20	50,000	0.50 U	10 U	1.0 U	0.50 U	10 U	1.0 U	0.50 U	10 U	1.0 U	1.0 U	0.50 U	10 U	1.0 U
	Chloroethane	NS	NS	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
	Chloroform	50	20,000	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
	Chloromethane	NS	NS	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
	2-Chlorotoluene	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	4-Chlorotoluene	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dibromo-3-chloropropane (DBCP)	NS	NS	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
	1,2-Dibromoethane (EDB)	2	50,000	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U
	Dibromomethane	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Dichlorodifluoromethane (Freon 12)	NS	NS	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
	1,1-Dichloroethane	1,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichloroethane	5	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1-Dichloroethylene	80	30,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**54**	**180**	**24**	**23**	1.0 U	**5.6**	**7.2**
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**14**	**57**	**8.2**	**8.1**	1.0 U	**1.0**	**1.4**
	1,2-Dichloropropane	3	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichloropropane	NS	NS	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U
	2,2-Dichloropropane	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1-Dichloropropene	NS	NS	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
	cis-1,3-Dichloropropene	10(2)	200(2)	0.50 U	5.0 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
	trans-1,3-Dichloropropene	10(2)	200(2)	0.50 U	5.0 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
	Diethyl Ether	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Diisopropyl Ether (DIPE)	NS	NS	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	2.0 U
	1,4-Dioxane	6,000	50,000	50 U	50 U	100 U	50 U	50 U	100 U	50 U	50 U	100 U	100 U	50 U	50 U	100 U
	Ethylbenzene	20,000	5,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Hexachlorobutadiene	1	3,000	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	0.50 U
	2-Hexanone (MBK)	NS	NS	10 U	10 U	1.0 U	10 U	10 U	1.0 U	10 U	10 U	1.0 U	1.0 U	10 U	10 U	1.0 U
	Isopropylbenzene (Cumene)	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Methyl tert-Butyl Ether (MTBE)	50,000	50,000	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U
	Methylene Chloride	10,000	50,000	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U
	4-Methyl-2-pentanone (MIBK)	50,000	50,000	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.0 U	10 U	10 U	5.0 U
	Naphthalene	1,000	20,000	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
	n-Propylbenzene	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Styrene	100	6,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1,2-Tetrachloroethane	10	50,000	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
	1,1,2,2-Tetrachloroethane	9	50,000	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	2.0 U

Table 1
Summary of Analytical Results for Aqueous Seep Samples
(December 2009 through January 2010)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		BRM-S-1			BRM-S-2			BRM-S-3				FIP-S-1		
		Sample Date:		12/2/2009	1/7/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010
		GW-2	GW-3										Field Dup			
	Tetrachloroethylene	50	30,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Tetrahydrofuran	NS	NS	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.0 U	10 U	10 U	5.0 U
	Toluene	50,000	40,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2,3-Trichlorobenzene	NS	NS	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	2.0 U	5.0 U	5.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	5.0 U	1.0 U	2.0 U	5.0 U	1.0 U	2.0 U	5.0 U	1.0 U	2.0 U	2.0 U	5.0 U	1.0 U	2.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,2-Trichloroethane	900	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichloroethylene	30	5,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.0**	**1.2**	**1.3**	1.0 U	1.0 U	1.0 U
	Trichlorofluoromethane (Freon 11)	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,3-Trichloropropane	NS	NS	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
	1,2,4-Trimethylbenzene	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3,5-Trimethylbenzene	7,000(1)	50,000(1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Vinyl Chloride	2	50,000	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	**2.1**	**34**	**1.4**	**1.3**	2.0 U	2.0 U	**1.3**
	m+p Xylene	9,000	5,000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	o-Xylene	9,000	5,000	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U
EPH																
(ug/L)	C9-C18 Aliphatics	5,000	50,000	150 U	NA	NA	150 U	NA	NA	150 U	NA	NA	NA	150 U	NA	NA
	C19-C36 Aliphatics	NS	50,000	**190**	NA	NA	150 U	NA	NA	150 U	NA	NA	NA	150 U	NA	NA
	C11-C22 Aromatics	50,000	5,000	100 U	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
	Acenaphthene	NS	6,000	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Acenaphthylene	10,000	40	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Anthracene	NS	30	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Benzo(a)anthracene	NS	1,000	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Benzo(a)pyrene	NS	500	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Benzo(b)fluoranthene	NS	400	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Benzo(g,h,i)perylene	NS	20	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Benzo(k)fluoranthene	NS	100	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Chrysene	NS	70	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Dibenz(a,h)anthracene	NS	40	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Fluoranthene	NS	200	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Fluorene	NS	40	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Indeno(1,2,3-cd)pyrene	NS	100	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	2-Methylnaphthalene	2,000	20,000	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Naphthalene	1,000	20,000	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Phenanthrene	NS	10,000	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
	Pyrene	NS	20	2.0 U	NA	NA	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA
PAHs																
(ug/L)	Acenaphthene	NS	6,000	0.30 U	NA	NA	0.30 U	NA	NA	0.30 U	NA	NA	NA	0.30 U	NA	NA
	Acenaphthylene	10,000	40	0.30 U	NA	NA	0.30 U	NA	NA	0.30 U	NA	NA	NA	0.30 U	NA	NA
	Anthracene	NS	30	0.20 U	NA	NA	0.20 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	NA	NA
	Benzo(a)anthracene	NS	1,000	0.050 U	NA	NA	0.050 U	NA	NA	0.050 U	NA	NA	NA	0.050 U	NA	NA
	Benzo(a)pyrene	NS	500	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA
	Benzo(b)fluoranthene	NS	400	0.050 U	NA	NA	0.050 U	NA	NA	0.050 U	NA	NA	NA	0.050 U	NA	NA
	Benzo(g,h,i)perylene	NS	20	0.50 U	NA	NA	0.50 U	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	NA
	Benzo(k)fluoranthene	NS	100	0.20 U	NA	NA	0.20 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	NA	NA
	Chrysene	NS	70	0.20 U	NA	NA	0.20 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	NA	NA
	Dibenz(a,h)anthracene	NS	40	0.20 U	NA	NA	0.20 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	NA	NA
	Fluoranthene	NS	200	0.50 U	NA	NA	0.50 U	NA	NA	0.50 U	NA	NA	NA	0.50 U	NA	NA
	Fluorene	NS	40	1.0 U	NA	NA	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U	NA	NA
	Indeno(1,2,3-cd)pyrene	NS	100	0.20 U	NA	NA	0.20 U	NA	NA	0.20 U	NA	NA	NA	0.20 U	NA	NA
	2-Methylnaphthalene	2,000	20,000	1.0 U	NA	NA	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U	NA	NA
	Naphthalene	1,000	20,000	1.0 U	NA	NA	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U	NA	NA
	Phenanthrene	NS	10,000	0.050 U	NA	NA	0.050 U	NA	NA	0.050 U	NA	NA	NA	0.050 U	NA	NA
	Pyrene	NS	20	1.0 U	NA	NA	1.0 U	NA	NA	1.0 U	NA	NA	NA	1.0 U	NA	NA

Table 1
Summary of Analytical Results for Aqueous Seep Samples
(December 2009 through January 2010)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		BRM-S-1			BRM-S-2			BRM-S-3				FIP-S-1		
		Sample Date:		12/2/2009	1/7/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010	1/30/2010	12/2/2009	1/7/2010	1/30/2010
		GW-2	GW-3										Field Dup			
PCBs																
(ug/L)	Aroclor 1016	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Aroclor 1221	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Aroclor 1232	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Aroclor 1242	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Aroclor 1248	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Aroclor 1254	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Aroclor 1260	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
	Total PCB Amount	5	10	0.0500 U	NA	NA	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	NA	NA
Metals, total																
(ug/L)	Antimony	NS	8,000	40 U	NA	NA	40 U	NA	NA	40 U	NA	NA	NA	40 U	NA	NA
	Arsenic	NS	900	**9.2**	NA	NA	**11**	NA	NA	**10**	NA	NA	NA	**5.8**	NA	NA
	Barium	NS	50,000	**98**	NA	NA	**76**	NA	NA	**140**	NA	NA	NA	50 U	NA	NA
	Beryllium	NS	200	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	NA	NA
	Cadmium	NS	4	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	NA	NA
	Chromium	NS	300	5.0 U	NA	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	NA
	Lead	NS	10	7.5 U	NA	NA	7.5 U	NA	NA	**220**	NA	NA	NA	7.5 U	NA	NA
	Mercury	NS	20	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA
	Nickel	NS	200	5.0 U	NA	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	NA
	Selenium	NS	100	25 U	NA	NA	25 U	NA	NA	25 U	NA	NA	NA	25 U	NA	NA
	Silver	NS	7	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	NA	NA
	Thallium	NS	3,000	30 U	NA	NA	30 U	NA	NA	30 U	NA	NA	NA	30 U	NA	NA
	Vanadium	NS	4,000	25 U	NA	NA	25 U	NA	NA	25 U	NA	NA	NA	25 U	NA	NA
	Zinc	NS	900	**260**	NA	NA	**51**	NA	NA	**150**	NA	NA	NA	**21**	NA	NA
Metals, dissolved																
(ug/L)	Antimony	NS	8,000	40 U	NA	NA	40 U	NA	NA	40 U	NA	NA	NA	40 U	NA	NA
	Arsenic	NS	900	**6.5**	NA	NA	**8.9**	NA	NA	**8.4**	NA	NA	NA	**6.0**	NA	NA
	Barium	NS	50,000	**79**	NA	NA	**73**	NA	NA	**67**	NA	NA	NA	50 U	NA	NA
	Beryllium	NS	200	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	NA	NA
	Cadmium	NS	4	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	NA	NA
	Chromium	NS	300	5.0 U	NA	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	NA
	Lead	NS	10	7.5 U	NA	NA	7.5 U	NA	NA	7.5 U	NA	NA	NA	7.5 U	NA	NA
	Mercury	NS	20	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA
	Nickel	NS	200	5.0 U	NA	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	NA
	Selenium	NS	100	25 U	NA	NA	25 U	NA	NA	25 U	NA	NA	NA	25 U	NA	NA
	Silver	NS	7	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	NA	NA
	Thallium	NS	3,000	30 U	NA	NA	30 U	NA	NA	30 U	NA	NA	NA	30 U	NA	NA
	Vanadium	NS	4,000	25 U	NA	NA	25 U	NA	NA	25 U	NA	NA	NA	25 U	NA	NA
	Zinc	NS	900	**160**	NA	NA	**43**	NA	NA	**48**	NA	NA	NA	**25**	NA	NA

Notes:
ug/L - micrograms per liter.
NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
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 the listed MassDEP Method 1 standards
VOCs - Volatile Organic Compounds.
EPH - Extractable Petroleum Hydrocarbons.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	CLEAN OUT	MW-4						MW-5									
				Sample Date:	4/28/2011	8/19/2008	8/19/2008	1/6/2010	2/17/2010	4/9/2010	9/13/2010	8/19/2008	1/6/2010	1/6/2010	2/17/2010	4/8/2010	9/10/2010	3/8/2011	4/11/2011	4/29/2011	8/24/2011
		GW-2	GW-3				Field Dup							Field Dup							
VOCs																					
	1,1-Dichloroethane	1,000	20,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Tetrachloroethylene	50	30,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Chlorobenzene	200	1,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Benzene	2,000	10,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	Vinyl Chloride	2	50,000		1.0 U	NA	NA	2.0 U	1.0 U	1.0 U	1.0 U	NA	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	trans-1,2-Dichloroethylene	90	50,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichloroethylene	30	5,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.8**	**2.1**	**4.4**	1.0 U
	1,2-Dichlorobenzene	2,000	2,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000		1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	**3.7**	**4.1**	**5.9**	**3.2**	**7.1**	**3.8**	**4.0**	**5.1**	**3.1**
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)		2.0 U	NA	NA	1.0 U	2.0 U	2.0 U	2.0 U	NA	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000		2.0 U	NA	NA	1.0 U	2.0 U	2.0 U	2.0 U	NA	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
PAHs																					
(ug/L)	Phenanthrene	NS	10,000		NA	0.05 U	0.05 U	NA	NA	NA	NA	**0.18**	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
(ug/L)	Aroclor 1242	5	10		NA	0.0500 U	0.0500 U	NA	NA	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	0.0521 U
	Aroclor 1248	5	10		NA	0.0500 U	0.0500 U	NA	NA	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	**0.129**
	Aroclor 1254	5	10		NA	0.0500 U	0.0500 U	NA	NA	NA	NA	**0.0731 J**	NA	NA	NA	NA	NA	NA	NA	NA	0.0521 U
	Total PCBs	5	10		NA	0.0500 U	0.0500 U	NA	NA	NA	NA	**0.0731 J**	NA	NA	NA	NA	NA	NA	NA	NA	**0.129**
Metals, total																					
(ug/L)	Arsenic	NS	900		NA	**7.0**	5.0 U	NA	NA	NA	NA	**15.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000		NA	50 U	50 U	NA	NA	NA	NA	**122**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	300		NA	5.0 U	5.0 U	NA	NA	NA	NA	**52.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	10		NA	7.5 U	7.5 U	NA	NA	NA	NA	**19.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200		NA	5.0 U	5.0 U	NA	NA	NA	NA	**20.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7		NA	3.0 U	3.0 U	NA	NA	NA	NA	**5.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	NS	3,000		NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900		NA	**12.0**	**16.0**	NA	NA	NA	NA	**68.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, dissolved																					
(ug/L)	Arsenic	NS	900		NA	10 U	10 U	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000		NA	50 U	50 U	NA	NA	NA	NA	**64.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200		NA	5.0 U	5.0 U	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7		NA	2.5 U	2.5 U	NA	NA	NA	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900		NA	**11**	**119**	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																					
(ug/L)	Nitrogen, Nitrate	NS	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA
	Sulfate	NS	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,000 U	NA	NA	NA	NA
	Total Organic Carbon	NS	NS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6,800**	NA	NA	NA	NA

Notes:
ug/L - micrograms per liter.
B - Compound detected in associated method blank
J - Estimated value.
NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
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 the listed MassDEP Method 1 standards.
VOCs - Volatile Organic Compounds.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	MW-5D				MW-6			MW-7							MW-7D		MW-8A
			Sample Date:	9/10/2010	4/8/2011	4/28/2011	8/24/2011	8/19/2008	1/7/2010	2/18/2010	9/16/2008	1/7/2010	2/17/2010	2/17/2010 Field Dup	4/7/2010	9/9/2010	10/22/2010	9/9/2010	9/9/2010 Field Dup	2/18/2010
		GW-2	GW-3																	
VOCs																				
	1,1-Dichloroethane	1,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**	**2.9**	1.0 U
	Tetrachloroethylene	50	30,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	**63**	**60**	**64**	**64**	**25**	**26**	**1.3**	1.0 U	1.0 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**	**2.7**	1.0 U
	Benzene	2,000	10,000	1.0 U	1.0 U	1.0 U	0.50 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Vinyl Chloride	2	50,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	2.0 U	1.0 U	NA	**3.4**	**9.2**	**9.9**	**1.6**	**1.4**	**3.7**	1.0 U	1.0 U	1.0 U
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichloroethylene	30	5,000	**1.1**	**3.4**	**3.5**	**31**	NA	1.0 U	1.0 U	NA	**6.8**	**5.8**	**6.5**	**4.5**	**14**	1.0 U	**13**	**10**	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	1.0 U	1.0 U	1.0 U	**6.3**	NA	1.0 U	1.0 U	NA	**20**	**30**	**30**	**9.6**	**47**	**49**	**2.2**	**1.8**	1.0 U
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	2.0 U	2.0 U	2.0 U	2.0 U	NA	1.0 U	2.0 U	NA	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	2.0 U	2.0 U	2.0 U	2.0 U	NA	1.0 U	2.0 U	NA	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
PAHs																				
(ug/L)	Phenanthrene	NS	10,000	NA	NA	NA	NA	**0.09**	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																				
(ug/L)	Aroclor 1242	5	10	NA	NA	NA	0.0500 U	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1248	5	10	NA	NA	NA	0.0500 U	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	5	10	NA	NA	NA	0.0500 U	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	5	10	NA	NA	NA	0.0500 U	0.0500 U	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																				
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	**13.0**	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	50 U	NA	NA	**254**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	300	NA	NA	NA	NA	5.0 U	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	10	NA	NA	NA	NA	7.5 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	5.0 U	NA	NA	**29.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	**3.0**	NA	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	NS	3,000	NA	NA	NA	NA	1.0 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	**110**	NA	NA	**894**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, dissolved																				
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	**10**	NA	NA	**2.41**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	50 U	NA	NA	250 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	5.0 U	NA	NA	**27.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	**2.6**	NA	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	10 U	NA	NA	**870**	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																				
(ug/L)	Nitrogen, Nitrate	NS	NS	**280**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	100 U	100 U	NA
	Sulfate	NS	NS	**10,000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**25,000**	NA	**20,000**	**20,000**	NA
	Total Organic Carbon	NS	NS	**2,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7,400**	NA	**6,100**	**6,100**	NA

Notes:
ug/L - micrograms per liter.
B - Compound detected in associated method blank
J - Estimated value.
NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
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 the listed MassDEP Method 1 standards.
VOCs - Volatile Organic Compounds.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	MW-8B	MW-11			MW-12	MW-13	MW-14	MW-15	MW-16		MW-17	MW-18				MW-19
			Sample Date:	9/16/2008	2/19/2010	4/7/2010	9/13/2010	2/18/2010	2/19/2010	2/19/2010	2/18/2010	2/19/2010	4/28/2011	2/18/2010	2/18/2010	4/9/2010	9/13/2010	4/28/2011	2/18/2010
		GW-2	GW-3																
VOCs																			
	1,1-Dichloroethane	1,000	20,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Tetrachloroethylene	50	30,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Chlorobenzene	200	1,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Benzene	2,000	10,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Vinyl Chloride	2	50,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	trans-1,2-Dichloroethylene	90	50,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichloroethylene	30	5,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
PAHs																			
(ug/L)	Phenanthrene	NS	10,000	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																			
(ug/L)	Aroclor 1242	5	10	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1248	5	10	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	5	10	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	5	10	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																			
(ug/L)	Arsenic	NS	900	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	250 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	300	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	10	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	NS	3,000	**1.29**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, dissolved																			
(ug/L)	Arsenic	NS	900	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	250 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																			
(ug/L)	Nitrogen, Nitrate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
ug/L - micrograms per liter.
B - Compound detected in associated method blank
J - Estimated value.
NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
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 the listed MassDEP Method 1 standards.
VOCs - Volatile Organic Compounds.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	MW-20		MW-21		MW-22			MW-23		MW-24				MW-25	MW-26	MW-27	
			Sample Date:	4/8/2010	9/10/2010	4/8/2010	9/13/2010	4/8/2010	4/8/2010	9/13/2010	4/8/2010	9/13/2010	4/8/2010	9/10/2010	10/21/2010	10/21/2010	9/8/2010	9/8/2010	9/9/2010	10/21/2010
		GW-2	GW-3						Field Dup							Field Dup				
VOCs																				
	1,1-Dichloroethane	1,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	Tetrachloroethylene	50	30,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	Benzene	2,000	10,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	Vinyl Chloride	2	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.8**	**1.5**	**1.2**	**1.2**	1.0 U	1.0 U	**550.0**	**10.3 J**
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**700**	**26.5 J**
	Trichloroethylene	30	5,000	**1.5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**31,000**	**4,500**
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	400 U	100 U
	cis-1,2-Dichloroethylene	100	50,000	**1.5**	**1.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4,100**	**290**
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	2.0 U	2.0 U	2.0 U	2.0 U	**6.2**	**6.2**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	800 U	200 U
	1,2,4-Trichlorobenzene	2,000	50,000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	800 U	200 U
PAHs																				
(ug/L)	Phenanthrene	NS	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																				
(ug/L)	Aroclor 1242	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1248	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aroclor 1254	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, total																				
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	NS	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, dissolved																				
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																				
(ug/L)	Nitrogen, Nitrate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1,000**	NA
	Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**21,000**	NA
	Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**8,700**	NA

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VOCs - Volatile Organic Compounds.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	MW-27D								MW-27R									
			Sample Date:	11/18/2010	3/8/2011	3/25/2011	4/8/2011	4/29/2011	4/29/2011	7/27/2011	8/25/2011	3/8/2011	3/8/2011	3/25/2011	4/8/2011	4/29/2011	7/27/2011	7/27/2011	8/2/2011	8/25/2011	8/25/2011
		GW-2	GW-3						Field Dup				Field Dup					Field Dup			Field Dup
VOCs																					
	1,1-Dichloroethane	1,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	Tetrachloroethylene	50	30,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	Benzene	2,000	10,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	100 U	50 U	120 U	100 U	100 U
	Vinyl Chloride	2	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**35**	**9.8**	2,000 U	2,000 U	2,000 U	1,000 U	500 U	**1,900**	**1,300**	**510**	**1,000**	**990**
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.5**	**2.2**	**2,500**	**2,500**	**2,600**	**1,900**	**1,400**	**2,200**	**1,700**	**940**	**1,700**	**1,700**
	Trichloroethylene	30	5,000	1.0 U	**1.4**	**0.71 J**	**1.7**	**3.8**	**3.8**	**15**	**4.8**	**210,000**	**180,000**	**410,000**	**130,000**	**38,000**	**16,000**	**13,000**	**23,000**	**27,000**	**28,000**
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.0**	**1.3**	2,000 U	2,000 U	2,000 U	1,000 U	500 U	200 U	100 U	250 U	200 U	200 U
	cis-1,2-Dichloroethylene	100	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**45**	**12**	**11,000**	**12,000**	**9,500**	**7,400**	**4,600**	**14,000**	**11,000**	**5,400**	**22,000**	**22,000**
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4,000 U	4,000 U	4,000 U	2,000 U	1,000 U	400 U	200 U	500 U	400 U	400 U
	1,2,4-Trichlorobenzene	2,000	50,000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4,000 U	4,000 U	4,000 U	2,000 U	1,000 U	400 U	200 U	500 U	400 U	400 U
PAHs																					
(ug/L)	Phenanthrene	NS	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																					
(ug/L)	Aroclor 1242	5	10	NA	NA	NA	NA	NA	NA	NA	0.150 U	NA	NA	NA	NA	NA	NA	NA	NA	**7.62**	**7.52**
	Aroclor 1248	5	10	NA	NA	NA	NA	NA	NA	NA	**0.358**	NA	NA	NA	NA	NA	NA	NA	NA	2.50 U	3.00 U
	Aroclor 1254	5	10	NA	NA	NA	NA	NA	NA	NA	**1.20**	NA	NA	NA	NA	NA	NA	NA	NA	**30.0**	**33.80**
	Total PCBs	5	10	NA	NA	NA	NA	NA	NA	NA	**1.558**	NA	NA	NA	NA	NA	NA	NA	NA	**37.62**	**41.32**
Metals, total																					
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	NS	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, dissolved																					
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																					
(ug/L)	Nitrogen, Nitrate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
U - Compound was not detected at specified quantitation limit.
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PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	MW-28									MW-29	MW-30	MW-31			
			Sample Date:	9/9/2010	10/21/2010	3/8/2011	3/25/2011	4/11/2011	4/28/2011	7/27/2011	8/2/2011	8/25/2011	9/10/2010	10/22/2010	10/21/2010	3/8/2011	4/11/2011	8/24/2011
		GW-2	GW-3															
VOCs																		
	1,1-Dichloroethane	1,000	20,000	1.0 U	1.0 U	1.0 U	2.5 U	1.0 U	5.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Tetrachloroethylene	50	30,000	1.0 U	1.0 U	1.0 U	2.5 U	1.0 U	5.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Chlorobenzene	200	1,000	**38**	**8.5**	1.0 U	2.5 U	1.0 U	5.0 U	**28**	**39**	**35**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U	2.5 U	1.0 U	5.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Benzene	2,000	10,000	1.0 U	1.0 U	1.0 U	2.5 U	1.0 U	5.0 U	**0.56**	1.2 U	**0.65**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	Vinyl Chloride	2	50,000	**9.7**	**3.8**	**10**	**22**	**23**	**7.4**	**36**	**42**	**55**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	trans-1,2-Dichloroethylene	90	50,000	**9.2**	**2.9**	**15**	**40**	**36**	**12**	**51**	**42**	**51**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichloroethylene	30	5,000	**11**	**5.0**	**110**	**220**	**200**	**150**	**87**	**52**	**78**	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	**2.0**	1.0 U	1.0 U	2.5 U	1.0 U	5.0 U	1.0 U	2.5 U	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	**9.9**	**2.5**	1.0 U	**0.84 J**	1.0 U	5.0 U	**3.8**	**6.0**	**6.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000	**48**	**11**	**2.7**	**3.4**	**3.8**	5.0 U	**12**	**23**	**25**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	**25**	**11**	**70**	**180**	**170**	**56**	**170**	**140**	**200**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	10 U	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	2.0 U	2.0 U	2.0 U	**1.3 J**	2.0 U	10 U	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
PAHs																		
(ug/L)	Phenanthrene	NS	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																		
(ug/L)	Aroclor 1242	5	10	NA	NA	NA	NA	NA	NA	NA	NA	**3.98**	NA	NA	NA	NA	NA	0.0500 U
	Aroclor 1248	5	10	NA	NA	NA	NA	NA	NA	NA	NA	1.10 U	NA	NA	NA	NA	NA	0.0500 U
	Aroclor 1254	5	10	NA	NA	NA	NA	NA	NA	NA	NA	**10.9**	NA	NA	NA	NA	NA	**0.0685**
	Total PCBs	5	10	NA	NA	NA	NA	NA	NA	NA	NA	**14.88**	NA	NA	NA	NA	NA	**0.0685**
Metals, total																		
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	NS	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Thallium	NS	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, dissolved																		
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																		
(ug/L)	Nitrogen, Nitrate	NS	NS	100 U	NA	NA	NA	NA	NA	NA	NA	NA	**110**	NA	NA	NA	NA	NA
	Sulfate	NS	NS	**13,000**	NA	NA	NA	NA	NA	NA	NA	NA	10,000 U	NA	NA	NA	NA	NA
	Total Organic Carbon	NS	NS	**5,200**	NA	NA	NA	NA	NA	NA	NA	NA	**4,700**	NA	NA	NA	NA	NA

Notes:
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VOCs - Volatile Organic Compounds.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 2
Summary of Analytical Results for Groundwater Samples
(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte		Sample ID:	MW-32											MW-33				MW-HH-13		
			Sample Date:	10/21/2010	3/8/2011	3/25/2011	3/25/2011	4/8/2011	4/8/2011	4/28/2011	7/27/2011	8/2/2011	8/2/2011	8/25/2011	10/21/2010	3/8/2011	4/12/2011	8/24/2011	4/23/2009	4/23/2009	2/18/2010
		GW-2	GW-3				Field Dup		Field Dup				Field Dup							Field Dup	
VOCs																					
	1,1-Dichloroethane	1,000	20,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	Tetrachloroethylene	50	30,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	Chlorobenzene	200	1,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	Benzene	2,000	10,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	25 U	12 U	25 U	12 U	1.0 U	1.0 U	1.0 U	0.50 U	NA	NA	1.0 U
	Vinyl Chloride	2	50,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	500 U	**230**	**220**	200 U	200 U	200 U	50 U	**27**	50 U	**29**	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	Trichloroethylene	30	5,000	**1.1**	**17,000**	**26,000**	**26,000**	**21,000**	**21,000**	**4,700**	**2,600**	**2,500**	**2,000**	**2,800**	1.0 U	1.0 U	1.0 U	**1.1**	NA	NA	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	500 U	100 U	100 U	200 U	200 U	200 U	50 U	25 U	50 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	**4.5**	**910**	**980**	**1,000**	**480**	**470**	**250**	**200**	**220**	**180**	**250**	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	2.0 U	1,000 U	200 U	200 U	400 U	400 U	400 U	100 U	50 U	100 U	50 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	2.0 U	1,000 U	200 U	200 U	400 U	400 U	400 U	100 U	50 U	100 U	50 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U
PAHs																					
(ug/L)	Phenanthrene	NS	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	NA
PCBs																					
(ug/L)	Aroclor 1242	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	0.050 U	NA	NA
	Aroclor 1248	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA	NA	0.0500 U	0.050 U	NA	NA
	Aroclor 1254	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.121**	NA	NA	NA	**0.0630**	0.050 U	NA	NA
	Total PCBs	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.121**	NA	NA	NA	**0.0630**	0.050 U	NA	NA
Metals, total																					
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**5,570**	**5,710**	NA
	Chromium	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA
	Lead	NS	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.5 U	7.5 U	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	3.0 U	NA
	Thallium	NS	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.0 U	30.0 U	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**17.0**	**20.0**	NA
Metals, dissolved																					
(ug/L)	Arsenic	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA
	Barium	NS	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**5,340**	**5,490**	NA
	Nickel	NS	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA
	Silver	NS	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 U	3.0 U	NA
	Zinc	NS	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**14.0**	**15.0**	NA
General Chemistry																					
(ug/L)	Nitrogen, Nitrate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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(2008 through 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		MW-HRC-33		
		Sample Date:		4/23/2009	4/23/2009	2/17/2010
		GW-2	GW-3		Field Dup	
VOCs						
	1,1-Dichloroethane	1,000	20,000	NA	NA	1.0 U
	Tetrachloroethylene	50	30,000	NA	NA	1.0 U
	Chlorobenzene	200	1,000	NA	NA	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	NA	NA	1.0 U
	Benzene	2,000	10,000	NA	NA	1.0 U
	Vinyl Chloride	2	50,000	NA	NA	1.0 U
	trans-1,2-Dichloroethylene	90	50,000	NA	NA	1.0 U
	Trichloroethylene	30	5,000	NA	NA	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	NA	NA	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	NA	NA	1.0 U
	1,4-Dichlorobenzene	200	8,000	NA	NA	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	NA	NA	1.0 U
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	NA	NA	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	NA	NA	2.0 U
PAHs						
(ug/L)	Phenanthrene	NS	10,000	0.05 U	NA	NA
PCBs						
(ug/L)	Aroclor 1242	5	10	0.050 U	0.050 U	NA
	Aroclor 1248	5	10	0.050 U	0.050 U	NA
	Aroclor 1254	5	10	0.050 U	0.050 U	NA
	Total PCBs	5	10	0.050 U	0.050 U	NA
Metals, total						
(ug/L)	Arsenic	NS	900	5.0 U	NA	NA
	Barium	NS	50,000	**157**	NA	NA
	Chromium	NS	300	5.0 U	NA	NA
	Lead	NS	10	**10.5**	NA	NA
	Nickel	NS	200	5.0 U	NA	NA
	Silver	NS	7	3.0 U	NA	NA
	Thallium	NS	3,000	30.0 U	NA	NA
	Zinc	NS	900	**300**	NA	NA
Metals, dissolved						
(ug/L)	Arsenic	NS	900	5.0 U	NA	NA
	Barium	NS	50,000	**141**	NA	NA
	Nickel	NS	200	5.0 U	NA	NA
	Silver	NS	7	3.0 U	NA	NA
	Zinc	NS	900	**270**	NA	NA
General Chemistry						
(ug/L)	Nitrogen, Nitrate	NS	NS	NA	NA	NA
	Sulfate	NS	NS	NA	NA	NA
	Total Organic Carbon	NS	NS	NA	NA	NA

Notes:
ug/L - micrograms per liter.
B - Compound detected in associated method blank
J - Estimated value.
NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
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 the listed MassDEP Method 1 standards.
VOCs - Volatile Organic Compounds.
PAHs - Polynuclear Aromatic Hydrocarbons.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 3
Summary of Analytical Results for Indoor Air Samples (2010 and 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample Locatoin:	Mechanical Room B-114			Classroom B-116	Senior Honor Lounge Room B-109			Cafeteria Storage Room	Classroom A-112-3				Classroom A-115-4
		Sample ID:	TRC-IA-1	TRC-IA-1	IA-2	TRC-IA-2	TRC-IA-3	B109		TRC-IA-4	TRC-IA-5	TRC-IA-5	IA-1		TRC-IA-6
		Sample Date:	1/31/2010	4/20/2010	8/24/2010	1/31/2010	1/31/2010	4/8/2011	4/8/2011	1/31/2010	1/31/2010	4/20/2010	8/24/2010	8/24/2010	4/20/2010
		IATV							Field Dup					Field Dup	
TO-15															
(ug/m3)	Dichlorodifluoromethane	N/A	**2.00**	**2.27**	**3.11**	**2.02**	**2.08**	**2.34**	**2.24**	**2.13**	**3.36**	**2.55**	**2.52**	**2.92**	**3.09**
	Chloromethane	N/A	**1.11**	**1.04**	**1.10**	**1.03**	**0.92**	1.03 U	1.03 U	**1.16**	**1.29**	**1.29**	**1.04**	**1.09**	**1.54**
	Vinyl chloride	0.39	**0.562**	**0.853**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	**0.531**	0.051 U	0.051 U	0.051 U	0.051 U
	Acetone	230	**3.40**	**2.58**	**7.86**	**3.57**	**29.6**	**4.57**	**5.31**	**3.68**	2.37 U	**4.83**	**7.52**	**8.21**	**6.81**
	Trichlorofluoromethane	N/A	1.12 U	**1.25**	**1.82**	1.12 U	1.12 U	**1.18**	**1.10**	1.12 U	**4.92**	**1.37**	**1.5**	**1.6**	**1.57**
	Methylene chloride	11	1.74 U	1.74 U	4.86 U	1.74 U	1.74 U	4.86 U	4.86 U	1.74 U	1.74 U	1.74 U	4.86 U	4.86 U	1.74 U
	trans-1,2-Dichloroethene	20	**2.38**	**5.62**	**0.23**	0.079 U	0.079 U	**0.083**	**0.095**	0.079 U	**1.72**	0.079 U	0.079 U	0.079 U	0.079 U
	Methyl tert butyl ether	880	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U	0.072 U	0.072 U	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U
	2-Butanone	1,500	**1.01**	**4.57**	**3.04**	0.589 U	0.589 U	**0.784**	**1.35**	0.589 U	**1.89**	0.589 U	0.589 U	**0.628**	0.589 U
	cis-1,2-Dichloroethene	10	**4.27**	**15.2**	**0.103**	**0.087**	0.079 U	**0.551**	**0.539**	0.079 U	**3.58**	0.079 U	0.079 U	0.079 U	**0.103**
	Chloroform	3	0.098 U	**0.161**	**2.34**	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	**0.283**	0.098 U	**1.31**	**0.146**	0.098 U
	1,2-Dichloroethane	0.13	0.081 U	**0.109**	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
	1,1,1-Trichloroethane	1,500	1.09 U	1.09 U	**1.31**	1.09 U	1.09 U	**1.85**	**1.78**	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
	Benzene	11	**0.865**	**5.50**	**1.52**	**0.424**	**0.447**	**0.495**	**0.498**	**0.479**	**2.55**	**0.345**	0.319 U	0.319 U	**0.405**
	Carbon tetrachloride	0.86	**0.578**	**0.509**	**0.66**	**0.484**	**0.390**	**0.396**	**0.377**	**0.490**	**0.559**	**0.566**	**0.654**	**0.666**	**0.629**
	Bromodichloromethane	0.19	0.134 U	0.134 U	**0.355**	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
	Trichloroethene	2	**2.20**	**10.9**	**0.204**	0.107 U	0.107 U	**17.5**	**17.2**	0.107 U	**1.12**	0.107 U	0.107 U	0.107 U	**0.172**
	4-Methyl-2-pentanone	880	0.819 U	0.819 U	**0.876**	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	**1.21**	0.819 U	0.819 U	0.819 U	0.819 U
	Toluene	1,500	**1.97**	**42.0**	**9.47**	0.753 U	**4.18**	**1.30**	**1.44**	0.753 U	**13.1**	0.753 U	**0.922**	**0.979**	**0.874**
	Tetrachloroethene	4.1	0.136 U	0.136 U	0.136 U	0.136 U	0.136 U	**0.142**	**0.142**	0.136 U	0.136 U	0.136 U	0.136 U	0.136 U	0.136 U
	Ethylbenzene	290	0.868 U	**5.99**	**1.43**	0.868 U	**3.06**	**0.160**	**0.212**	0.868 U	**1.80**	0.868 U	0.868 U	0.868 U	0.868 U
	p/m-Xylene	29	1.74 U	**24.4**	**6.13**	1.74 U	**9.61**	**0.408**	**0.616**	1.74 U	**7.55**	1.74 U	1.74 U	1.74 U	1.74 U
	o-Xylene	29	0.868 U	**7.49**	**1.90**	0.868 U	**2.03**	**0.148**	**0.226**	0.868 U	**2.44**	0.868 U	0.868 U	0.868 U	0.868 U
	Xylenes (total)	29	1.74 U	**31.89**	**8.03**	1.74 U	**11.64**	**0.556**	**0.842**	1.74 U	**9.99**	1.74 U	1.74 U	1.74 U	1.74 U
	Styrene	6	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.085 U	0.085 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U
	n-Propylbenzene	44(a)	0.982 U	**1.49**	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U
	1,3,5-Trimethybenzene	44(a)	0.982 U	**2.54**	0.982 U	0.982 U	0.982 U	0.098 U	0.098 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U
	1,2,4-Trimethylbenzene	44(a)	0.982 U	**9.04**	**2.36**	0.982 U	0.982 U	0.098 U	**0.157**	0.982 U	**3.18**	0.982 U	0.982 U	0.982 U	0.982 U
	Naphthalene	2.7	0.262 U	**0.681**	0.262 U	0.262 U	**0.665**	0.262 U	0.262 U	0.262 U	**0.325**	0.262 U	0.262 U	0.262 U	0.262 U

Notes:
ug/m3 - micrograms per cubic meter.
N/A - No MassDEP criteria 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 IATV.
TO - Toxic organics.
IATV - MassDEP, Indoor Air Threshold Values (IATV), Commercial/ Industrial, Vapor Intrusion Guidance- Interim Draft, December 2010.
(a) - IATV criteria for C9-C10 aromatics used.

Table 3
Summary of Analytical Results for Indoor Air Samples (2010 and 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample Locatoin:	Classroom A-105-4	Classroom A-115-3	Classroom A-105-3	Classroom A-115-2	Classroom A-105-2	Classroom A-116-1	Classroom A-112-2	Classroom A-110-1	Lecture Room D-120		Storage Room	Can Wash
		Sample ID:	TRC-IA-7	TRC-IA-8	TRC-IA-9	TRC-IA-10	TRC-IA-11	TRC-IA-12	TRC-IA-13	TRC-IA-14	TRC-IA-15	IA-3	B106	B147
		Sample Date:	4/20/2010	4/20/2010	4/20/2010	4/20/2010	4/20/2010	4/20/2010	4/20/2010	4/20/2010	4/20/2010	8/24/2010	4/8/2011	4/8/2011
		IATV												
TO-15														
(ug/m3)	Dichlorodifluoromethane	N/A	**2.16**	**2.31**	**1.95**	**2.21**	**2.20**	**2.85**	**2.56**	**2.23**	**2.28**	**3.06**	**2.33**	**2.21**
	Chloromethane	N/A	**1.11**	**1.09**	**1.08**	**1.19**	**1.07**	**1.33**	**1.42**	**1.01**	**1.12**	**1.23**	1.03 U	1.03 U
	Vinyl chloride	0.39	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
	Acetone	230	**5.18**	**7.56**	**5.78**	**4.64**	**7.75**	**5.30**	**5.02**	**4.62**	**8.21**	**9.90**	**59.1**	**6.11**
	Trichlorofluoromethane	N/A	1.12 U	**1.25**	1.12 U	**1.20**	**1.18**	**1.48**	**1.36**	**1.21**	**1.58**	**2.03**	**1.16**	**1.14**
	Methylene chloride	11	1.74 U	1.74 U	**2.87**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	4.86 U	4.86 U	4.86 U
	trans-1,2-Dichloroethene	20	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
	Methyl tert butyl ether	880	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U	0.720 U	**4.74**	0.720 U	0.072 U	0.072 U
	2-Butanone	1,500	0.589 U	**0.922**	0.589 U	0.589 U	**0.746**	**0.648**	0.589 U	0.589 U	**2.44**	**1.79**	**0.996**	**1.16**
	cis-1,2-Dichloroethene	10	**0.246**	0.079 U	**0.119**	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	**0.226**	**0.254**
	Chloroform	3	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	**0.590**	**0.107**	**0.098**	**0.107**
	1,2-Dichloroethane	0.13	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
	1,1,1-Trichloroethane	1,500	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	**7.14**	1.09 U	**1.10**	**1.07**
	Benzene	11	0.319 U	0.319 U	**0.354**	0.319 U	0.319 U	**0.358**	**0.322**	0.319 U	**4.48**	**0.348**	**0.447**	**0.492**
	Carbon tetrachloride	0.86	**0.478**	**0.484**	**0.541**	**0.490**	**0.509**	**0.610**	**0.578**	**0.484**	**0.478**	**0.679**	**0.390**	**0.383**
	Bromodichloromethane	0.19	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
	Trichloroethene	2	**0.462**	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	**0.107**	0.107 U	**7.25**	**7.42**
	4-Methyl-2-pentanone	880	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U	0.819 U
	Toluene	1,500	**1.41**	0.753 U	**0.915**	0.753 U	**1.31**	0.753 U	0.753 U	0.753 U	**36.9**	**3.54**	**1.30**	**1.37**
	Tetrachloroethene	4.1	0.136 U	0.136 U	**0.196**	0.136 U	0.136 U	0.136 U	0.136 U	0.136 U	**1.76**	**0.136**	0.136 U	0.136 U
	Ethylbenzene	290	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	**6.00**	0.868 U	**0.260**	**0.252**
	p/m-Xylene	29	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**18.8**	**2.41**	**0.720**	**0.781**
	o-Xylene	29	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	0.868 U	**6.69**	0.868 U	**0.317**	**0.321**
	Xylenes (total)	29	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**25.49**	**2.41**	**1.037**	**1.102**
	Styrene	6	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	0.851 U	**0.294**	0.085 U
	n-Propylbenzene	44(a)	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	**1.48**	0.982 U	0.982 U	0.982 U
	1,3,5-Trimethybenzene	44(a)	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	**2.11**	0.982 U	0.098 U	0.098 U
	1,2,4-Trimethylbenzene	44(a)	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	**6.96**	0.982 U	**0.182**	**0.167**
	Naphthalene	2.7	0.262 U	0.262 U	0.262 U	0.262 U	0.262 U	0.262 U	0.262 U	0.262 U	**0.644**	0.262 U	0.262 U	0.262 U

Notes:
ug/m3 - micrograms per cubic meter.
N/A - No MassDEP criteria 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 IATV.
TO - Toxic organics.
IATV - MassDEP, Indoor Air Threshold Values (IATV), Commercial/ Industrial,
Vapor Intrusion Guidance- Interim Draft, December 2010.
(a) - IATV criteria for C9-C10 aromatics used.

Table 4
Summary of Analytical Results for Grab Samples (April through August 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		MW-27R			MW-32	VAC TRUCK	VC072811	VAC EFF
		Sample Date:		4/5/2011	4/25/2011	8/2/2011	8/2/2011	4/25/2011	7/28/2011	8/3/2011
		GW-2	GW-3							
VOCs										
(ug/L)	Methylene Chloride	10,000	50,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,1-Dichloroethane	1,000	20,000	500 U	400 U	NA	NA	25 U	NA	NA
	Chloroform	50	20,000	500 U	400 U	NA	NA	25 U	NA	NA
	Carbon Tetrachloride	2	5,000	500 U	400 U	NA	NA	25 U	NA	NA
	1,2-Dichloropropane	3	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	Chlorodibromomethane	20	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	1,1,2-Trichloroethane	900	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	Tetrachloroethylene	50	30,000	500 U	400 U	NA	NA	25 U	2.5 U	NA
	Chlorobenzene	200	1,000	500 U	400 U	NA	NA	25 U	NA	NA
	Trichlorofluoromethane (Freon 11)	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2-Dichloroethane	5	20,000	500 U	400 U	NA	NA	25 U	NA	NA
	1,1,1-Trichloroethane	4,000	20,000	500 U	400 U	NA	NA	25 U	NA	NA
	Bromodichloromethane	6	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	trans-1,3-Dichloropropene	10(2)	200(2)	250 U	200 U	NA	NA	12 U	NA	NA
	cis-1,3-Dichloropropene	10(2)	200(2)	250 U	200 U	NA	NA	12 U	NA	NA
	1,1-Dichloropropene	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Bromoform	700	50,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,1,2,2-Tetrachloroethane	9	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	Benzene	2,000	10,000	500 U	400 U	NA	NA	25 U	NA	NA
	Toluene	50,000	40,000	500 U	400 U	NA	NA	25 U	NA	NA
	Ethylbenzene	20,000	5,000	500 U	400 U	NA	NA	25 U	NA	NA
	Chloromethane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Bromomethane	7	800	1,000 U	800 U	NA	NA	50 U	NA	NA
	Vinyl Chloride	2	50,000	500 U	400 U	NA	NA	25 U	5.0 U	NA
	Chloroethane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,1-Dichloroethylene	80	30,000	500 U	400 U	NA	NA	25 U	2.5 U	NA
	trans-1,2-Dichloroethylene	90	50,000	500 U	**910**	NA	NA	25 U	3.8 U	NA
	Trichloroethylene	30	5,000	**35,000**	**29,000**	NA	NA	**1,600**	**180**	NA
	1,2-Dichlorobenzene	2,000	2,000	500 U	400 U	NA	NA	25 U	NA	NA
	1,3-Dichlorobenzene	2,000	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	1,4-Dichlorobenzene	200	8,000	500 U	400 U	NA	NA	25 U	NA	NA
	Methyl tert-Butyl Ether (MTBE)	50,000	50,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	m+p Xylene	9,000	5,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	o-Xylene	9,000	5,000	500 U	400 U	NA	NA	25 U	NA	NA

Table 4
Summary of Analytical Results for Grab Samples (April through August 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		MW-27R			MW-32	VAC TRUCK	VC072811	VAC EFF
		Sample Date:		4/5/2011	4/25/2011	8/2/2011	8/2/2011	4/25/2011	7/28/2011	8/3/2011
		GW-2	GW-3							
	cis-1,2-Dichloroethylene	100	50,000	**1,800**	**3,400**	NA	NA	**89**	**36**	NA
	Dibromomethane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2,3-Trichloropropane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Styrene	100	6,000	500 U	400 U	NA	NA	25 U	NA	NA
	Dichlorodifluoromethane (Freon 12)	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Acetone	50,000	50,000	2,500 U	2,000 U	NA	NA	120 U	NA	NA
	Carbon Disulfide	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	2-Butanone (MEK)	50,000	50,000	2,500 U	2,000 U	NA	NA	120 U	NA	NA
	4-Methyl-2-pentanone (MIBK)	50,000	50,000	2,500 U	2,000 U	NA	NA	120 U	NA	NA
	2-Hexanone (MBK)	NS	NS	2,500 U	2,000 U	NA	NA	120 U	NA	NA
	Bromochloromethane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Tetrahydrofuran	NS	NS	2,500 U	2,000 U	NA	NA	120 U	NA	NA
	2,2-Dichloropropane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2-Dibromoethane (EDB)	2	50,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,3-Dichloropropane	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,1,1,2-Tetrachloroethane	10	50,000	500 U	400 U	NA	NA	25 U	NA	NA
	Bromobenzene	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	n-Butylbenzene	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	sec-Butylbenzene	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	tert-Butylbenzene	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	2-Chlorotoluene	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	4-Chlorotoluene	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2-Dibromo-3-chloropropane (DBCP)	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Hexachlorobutadiene	1	3,000	300 U	240 U	NA	NA	15 U	NA	NA
	Isopropylbenzene (Cumene)	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	p-Isopropyltoluene (p-Cymene)	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	Naphthalene	1,000	20,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	n-Propylbenzene	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2,3-Trichlorobenzene	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2,4-Trichlorobenzene	2,000	50,000	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,3,5-Trimethylbenzene	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,2,4-Trimethylbenzene	7,000(1)	50,000(1)	1,000 U	800 U	NA	NA	50 U	NA	NA
	Diethyl Ether	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	Diisopropyl Ether (DIPE)	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	tert-Butyl Ethyl Ether (TBEE)	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	tert-Amyl Methyl Ether (TAME)	NS	NS	1,000 U	800 U	NA	NA	50 U	NA	NA
	1,4-Dioxane	6,000	50,000	120,000 U	100,000 U	NA	NA	6,200 U	NA	NA

Table 4
Summary of Analytical Results for Grab Samples (April through August 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		MW-27R			MW-32	VAC TRUCK	VC072811	VAC EFF
		Sample Date:		4/5/2011	4/25/2011	8/2/2011	8/2/2011	4/25/2011	7/28/2011	8/3/2011
		GW-2	GW-3							
PCBs										
(ug/L)	Aroclor 1016	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1221	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1232	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1242	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1248	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1254	5	10	NA	NA	**161**	0.25 U	NA	NA	**279**
	Aroclor 1260	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1262	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Aroclor 1268	5	10	NA	NA	12.5 U	0.25 U	NA	NA	12.5 U
	Total PCBs	5	10	NA	NA	**161**	0.25 U	NA	NA	**279**
Total Petroleum Hydrocarbons										
(ug/L)	Total Petroleum Hydrocarbons (C9-C44)	5,000	5,000	NA	NA	**262 B**	66 U	NA	NA	**43,000**

Notes:
ug/L - micrograms per liter.
B - Compound detected in associated method blank
NA - Sample not analyzed for the listed analyte.
NS - No MassDEP standards exist for this compound.
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 the listed MassDEP Method 1 standards.
VOCs - Volatile Organic Compounds.
PCBs - Polychlorinated Biphenyls.
(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.
(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

Table 5
Summary of Analytical Results for Oil Samples
(August 2010 through August 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Sample ID:	S080211-038	MW-27		MW-27R	VAC NAPL
	Sample Date:	8/2/2011	8/30/2010		8/22/2011	8/3/2011
	Analyte					
VOCs						
(mg/kg)	Acetone	NA	**140**	**JB**	NA	NA
	tert-Amyl Methyl Ether (TAME)	NA	45	U	NA	NA
	Benzene	NA	22	U	NA	NA
	Bromobenzene	NA	22	U	NA	NA
	Bromochloromethane	NA	22	U	NA	NA
	Bromodichloromethane	NA	45	U	NA	NA
	Bromoform	NA	220	U	NA	NA
	Bromomethane	NA	**14**	**J**	NA	NA
	2-Butanone (MEK)	NA	450	U	NA	NA
	n-Butylbenzene	NA	**1.3**	**J**	NA	NA
	sec-Butylbenzene	NA	22	U	NA	NA
	tert-Butylbenzene	NA	22	U	NA	NA
	tert-Butyl Ethyl Ether (TBEE)	NA	45	U	NA	NA
	Carbon Disulfide	NA	**57**	**J**	NA	NA
	Carbon Tetrachloride	NA	220	U	NA	NA
	Chlorobenzene	NA	22	U	NA	NA
	Chlorodibromomethane	NA	90	U	NA	NA
	Chloroethane	NA	450	U	NA	NA
	Chloroform	NA	45	U	NA	NA
	Chloromethane	NA	45	U	NA	NA
	2-Chlorotoluene	NA	22	U	NA	NA
	4-Chlorotoluene	NA	22	U	NA	NA
	1,2-Dibromo-3-chloropropane (DBCP)	NA	220	U	NA	NA
	1,2-Dibromoethane (EDB)	NA	90	U	NA	NA
	Dibromomethane	NA	22	U	NA	NA
	1,2-Dichlorobenzene	NA	**22**		NA	NA
	1,3-Dichlorobenzene	NA	22	U	NA	NA
	1,4-Dichlorobenzene	NA	**29**		NA	NA
	Dichlorodifluoromethane (Freon 12)	NA	45	U	NA	NA
	1,1-Dichloroethane	NA	22	U	NA	NA
	1,2-Dichloroethane	NA	22	U	NA	NA
	1,1-Dichloroethylene	NA	**15**	**J**	NA	NA
	cis-1,2-Dichloroethylene	NA	**990**		NA	NA
	trans-1,2-Dichloroethylene	NA	**87**		NA	NA
	1,2-Dichloropropane	NA	22	U	NA	NA
	1,3-Dichloropropane	NA	11	U	NA	NA
	2,2-Dichloropropane	NA	220	U	NA	NA
	1,1-Dichloropropene	NA	45	U	NA	NA
	cis-1,3-Dichloropropene	NA	45	U	NA	NA
	trans-1,3-Dichloropropene	NA	45	U	NA	NA
	Diethyl Ether	NA	45	U	NA	NA
	Diisopropyl Ether (DIPE)	NA	11	U	NA	NA
	1,4-Dioxane	NA	2,200	U	NA	NA
	Ethylbenzene	NA	**47**		NA	NA
	Hexachlorobutadiene	NA	22	U	NA	NA
	2-Hexanone (MBK)	NA	900	U	NA	NA
	Isopropylbenzene (Cumene)	NA	**2.0**	**J**	NA	NA
	p-Isopropyltoluene (p-Cymene)	NA	**7.0**	**J**	NA	NA

Table 5
Summary of Analytical Results for Oil Samples
(August 2010 through August 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Sample ID: / Sample Date: / Analyte	S080211-038 8/2/2011	MW-27 8/30/2010	MW-27R 8/22/2011	VAC NAPL 8/3/2011
	Methyl tert-Butyl Ether (MTBE)	NA	90 U	NA	NA
	Methylene Chloride	NA	110 U	NA	NA
	4-Methyl-2-pentanone (MIBK)	NA	450 U	NA	NA
	Naphthalene	NA	**27 J**	NA	NA
	n-Propylbenzene	NA	22 U	NA	NA
	Styrene	NA	**480**	NA	NA
	1,1,1,2-Tetrachloroethane	NA	90 U	NA	NA
	1,1,2,2-Tetrachloroethane	NA	45 U	NA	NA
	Tetrachloroethylene	NA	**10 J**	NA	NA
	Tetrahydrofuran	NA	220 U	NA	NA
	Toluene	NA	**12 J**	NA	NA
	1,2,3-Trichlorobenzene	NA	**230**	NA	NA
	1,2,4-Trichlorobenzene	NA	**1,000**	NA	NA
	1,1,1-Trichloroethane	NA	45 U	NA	NA
	1,1,2-Trichloroethane	NA	22 U	NA	NA
	Trichloroethylene	NA	**220,000**	NA	NA
	Trichlorofluoromethane (Freon 11)	NA	45 U	NA	NA
	1,2,3-Trichloropropane	NA	45 U	NA	NA
	1,2,4-Trimethylbenzene	NA	**3.1 J**	NA	NA
	1,3,5-Trimethylbenzene	NA	**1.3 J**	NA	NA
	Vinyl Chloride	NA	**7.2 J**	NA	NA
	m+p Xylene	NA	**13 J**	NA	NA
	o-Xylene	NA	22 U	NA	NA
	TICs	NA	ND	NA	NA
PCBs					
(mg/kg)	Aroclor 1016	NA	NA	3,810 U	29.6 U
	Aroclor 1221	NA	NA	3,810 U	29.6 U
	Aroclor 1232	NA	NA	3,810 U	29.6 U
	Aroclor 1242	NA	NA	3,810 U	29.6 U
	Aroclor 1248	NA	NA	3,810 U	19.7 U
	Aroclor 1254	**160**	NA	**246,000 B**	**179**
	Aroclor 1260	NA	NA	3,810 U	19.7 U
	Aroclor 1262	NA	NA	3,810 U	9.87 U
	Aroclor 1268	NA	NA	3,810 U	9.87 U
	Total PCBs	**160**	NA	**246,000**	**179**
Total Petroleum Hydrocarbons					
(mg/kg)	Total Petroleum Hydrocarbons (C9-C44)	NA	NA	**466,000**	**486,000**

Notes:

mg/kg - milligrams per kilogram or parts per million (ppm).

B - Compound detected in associated method blank

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

ND - Not detected.

U - Compound was not detected at specified quantitation limit.

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

VOCs - Volatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

TICs- Tentatively Identified Compounds.

Table 6
Summary of Analytical Results for Absorbent Sock Sample
(August 2011)
New Bedford High School
New Bedford, Massachusetts

Analysis	Sample ID:	MW27R WIPE	
	Sample Date:	8/5/2011	
	Analyte		
PCBs			
(ug abs)	Aroclor 1016	1,500	U
	Aroclor 1221	1,500	U
	Aroclor 1232	1,500	U
	Aroclor 1242	1,500	U
	Aroclor 1248	1,000	U
	Aroclor 1254	**17,500**	
	Aroclor 1260	1,000	U
	Aroclor 1262	500	U
	Aroclor 1268	500	U
	Total PCBs	**17,500**	

Notes:

ug - micrograms.

U - Compound was not detected at specified quantitation limit.

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

PCBs - Polychlorinated Biphenyls.

Table 7
Groundwater Elevations
New Bedford High School
New Bedford, Massachusetts

Well Location	Ground/Floor Elevation	Reference Elevation [1]	February 2010			April 2010			May 2010			September 2010			January 2011			June 2011		
			Gauging Date	Depth to Water [2]	Groundwater Elevation	Gauging Date	Depth to Water [2]	Groundwater Elevation	Gauging Date	Depth to Water [2]	Groundwater Elevation	Gauging Date	Depth to Water [2]	Groundwater Elevation	Gauging Date	Depth to Water [(2)]	Groundwater Elevation	Gauging Date	Depth to Water [(2)]	Groundwater Elevation
MW-4 [(4)]	84.68	84.53	2/17/2010	1.97	82.56	4/9/2010	0.89	83.64	5/17/2010	2.20	82.33	9/7/2010	3.90	80.63	1/20/2011	2.42	82.11	6/24/2011	2.23	82.30
MW-5 [(4)]	84.71	84.55	2/17/2010	1.95	82.60	4/7/2010	1.43	83.12	5/17/2010	2.02	82.53	9/7/2010	3.73	80.82	1/20/2011	2.23	82.32	6/24/2011	2.11	82.44
MW-5D	84.26	83.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	3.15	80.83	NM	NM	NM	6/24/2011	1.51	82.47
MW-6 [(3)]	84.74	84.52	2/17/2010	1.54	83.05	4/9/2010	0.67	83.92	5/17/2010	1.70	82.82	9/7/2010	3.47	81.12	1/20/2011	1.90	82.62	6/24/2011	1.75	82.77
MW-7	91.38	91.10	2/17/2010	8.67	82.43	4/7/2010	7.14	83.96	5/17/2010	8.85	82.25	9/7/2010	10.64	80.46	1/20/2011	9.18	81.92	6/24/2011	9.02	82.08
MW-7D	91.30	90.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	10.57	80.28	1/20/2011	NA	NM	6/24/2011	9.03	81.82
MW-8A [(4)]	89.57	89.35	2/17/2010	4.11	85.24	4/7/2010	2.56	86.79	5/17/2010	4.48	84.87	9/7/2010	5.97	83.38	NM	NM	NM	6/24/2011	4.44	84.91
MW-8B [(4)]	89.59	89.50	NM	NM	NM	4/7/2010	2.71	86.79	5/17/2010	4.60	84.90	9/7/2010	6.12	83.38	NM	NM	NM	6/24/2011	NA	NA
MW-11	83.97	83.86	2/17/2010	0.29	83.57	4/7/2010	0.00	83.86	5/17/2010	1.47	82.39	9/7/2010	3.14	80.72	1/20/2011	1.62	82.24	6/24/2011	1.42	82.44
MW-12	89.70	89.37	2/17/2010	6.39	82.98	4/7/2010	5.06	84.31	5/17/2010	6.56	82.81	9/7/2010	8.40	80.97	1/20/2011	6.95	82.42	Abandoned During RAM Rmplimentation		
MW-13	84.23	83.86	2/17/2010	0.90	82.97	4/7/2010	0.12	83.75	5/17/2010	1.10	82.76	9/7/2010	2.82	81.04	1/20/2011	1.17	82.69	6/24/2011	1.11	82.75
MW-14	84.02	83.64	2/17/2010	0.48	83.16	4/7/2010	0.08	83.56	5/17/2010	0.67	82.97	9/7/2010	2.37	81.27	1/20/2011	0.81	82.83	6/24/2011	0.91	82.73
MW-15	89.46	89.23	2/17/2010	5.94	83.29	4/7/2010	5.28	83.95	5/17/2010	6.11	83.12	9/7/2010	7.80	81.43	NM	NM	NM	6/24/2011	6.11	83.12
MW-16	84.12	83.85	2/19/2010	1.00	82.85	4/7/2010	1.06	82.79	5/17/2010	0.86	82.99	9/7/2010	2.85	81.00	1/20/2011	1.18	82.67	6/24/2011	1.06	82.79
MW-17	89.88	89.66	2/17/2010	6.71	82.96	4/7/2010	5.86	83.81	5/17/2010	6.88	82.78	9/7/2010	8.65	81.01	1/20/2011	7.17	82.49	6/24/2011	6.96	82.70
MW-18	84.28	84.09	2/17/2010	0.36	83.73	4/7/2010	0.85	83.24	5/17/2010	1.50	82.59	9/7/2010	3.20	80.89	1/20/2011	1.55	82.54	6/24/2011	1.50	82.59
MW-19	88.76	88.58	2/17/2010	6.26	82.32	4/7/2010	4.59	83.99	5/17/2010	6.50	82.08	9/7/2010	8.57	80.01	1/20/2011	6.94	81.64	6/24/2011	6.41	82.17
MW-20	95.78	95.40	NA	NA	NA	4/7/2010	12.12	83.28	5/17/2010	13.52	81.88	9/7/2010	15.10	80.30	1/20/2011	13.73	81.67	6/24/2011	13.49	81.91
MW-21	92.56	92.22	NA	NA	NA	4/7/2010	8.27	83.95	5/17/2010	9.71	82.51	9/7/2010	11.55	80.67	1/20/2011	10.19	82.03	6/24/2011	9.90	82.32
MW-22	90.85	90.46	NA	NA	NA	4/7/2010	6.43	84.03	5/17/2010	8.03	82.43	9/7/2010	9.85	80.61	1/20/2011	5.42	85.04	6/24/2011	8.19	82.27
MW-23	89.42	89.12	NA	NA	NA	4/7/2010	5.21	83.91	5/17/2010	7.21	81.91	9/7/2010	8.79	80.33	1/20/2011	7.30	81.82	6/24/2011	7.24	81.88
MW-24	89.21	88.75	NA	NA	NA	4/7/2010	5.27	83.48	5/17/2010	7.91	80.84	9/7/2010	9.20	79.55	1/20/2011	7.88	80.87	6/24/2011	7.76	80.99
MW-25	87.53	87.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	8.11	79.17	1/20/2011	6.80	80.48	6/24/2011	6.75	80.53
MW-26	86.47	86.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	7.05	79.05	1/20/2011	5.67	80.43	6/24/2011	5.69	80.41
MW-27	84.66	84.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	3.66	80.78	1/20/2011	2.20	82.24	Abandoned		
MW-27D	84.66	84.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1/20/2011	2.06	82.34	6/24/2011	2.76	81.64
MW-27R	84.68	84.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1/20/2011	2.02	82.27	6/24/2011	1.70	82.59
MW-28 [(4)]	84.70	84.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	3.75	80.81	1/20/2011	2.24	82.32	6/24/2011	2.17	82.39
MW-29 [(4)]	84.71	84.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	9/7/2010	3.43	81.11	1/20/2011	2.72	81.82	6/24/2011	2.47	82.07
MW-30	89.62	89.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1/20/2011	7.91	81.37	6/24/2011	7.57	81.71
MW-31 [(4)]	84.70	84.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1/20/2011	2.30	82.25	6/24/2011	1.97	82.58
MW-32 [(4)]	84.67	84.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1/20/2011	2.29	82.23	6/24/2011	1.95	82.57
MW-33 [(5)]	84.73	84.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1/20/2011	2.32	82.27	6/24/2011	1.97	82.62
MW-HH-13	88.17	87.85	2/18/2010	4.35	83.50	4/7/2010	3.52	84.33	5/17/2010	4.48	83.37	9/7/2010	6.16	81.69	1/20/2011	4.61	83.24	Abandoned During RAM Rmplimentation		
MW-HRC-33	86.26	86.09	2/17/2010	3.88	82.21	4/7/2010	2.65	83.44	5/17/2010	4.41	81.68	9/7/2010	4.71	81.38	1/20/2011	3.78	82.31	6/24/2011	3.85	82.24

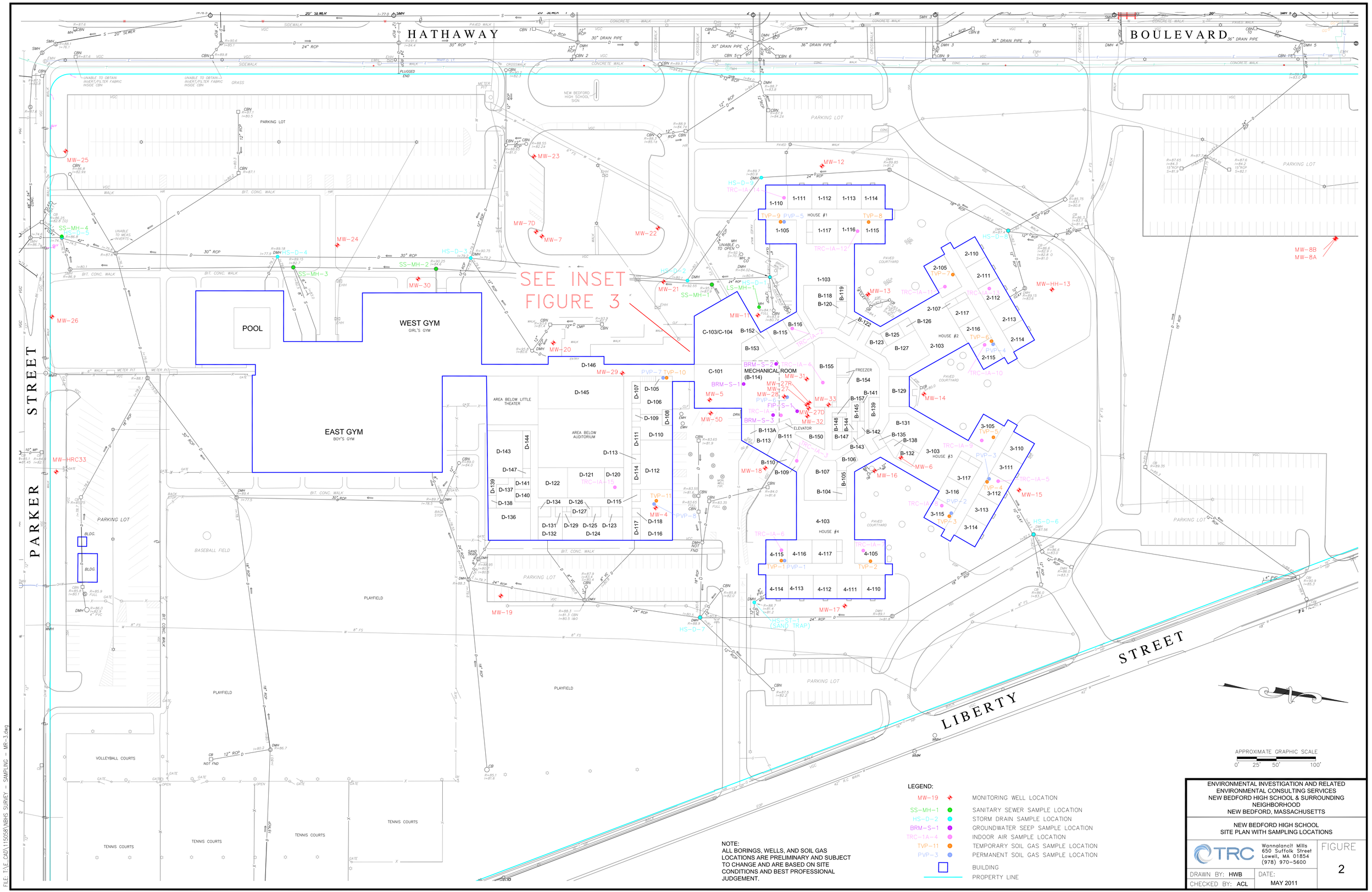
NOTES:
(1) - Survey of top of PVC riser.
(2) - Measure from top of PVC riser.
(3) - Approximate riser elevation (no survey data available) measured to be 0.22-feet below floor elevation.
(4) - 1-inch diameter monitoring well.
(5) - Approximate floor elevation based on nearby floor elevations and approximate riser elevation measured to be 0.14-feet below floor elevation (no survey data available for 1-inch diameter well).
NM - Not measured.
NA - Not available.

FIGURES

FIGURE 1

SITE AERIAL PHOTOGRAPH
New Bedford High School
NEW BEDFORD, MASSACHUSETTS

R:\Projects\GIS_2007\54634_NBedford\FIG1_NEWBEDHISCH_REV031710.mxd



NOTE:
ALL BORINGS, WELLS, AND SOIL GAS LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE AND ARE BASED ON SITE CONDITIONS AND BEST PROFESSIONAL JUDGEMENT.

LEGEND:

MW-19	MONITORING WELL LOCATION
SS-MH-1	SANITARY SEWER SAMPLE LOCATION
HS-D-2	STORM DRAIN SAMPLE LOCATION
BRM-S-1	GROUNDWATER SEEP SAMPLE LOCATION
TRC-IA-4	INDOOR AIR SAMPLE LOCATION
TVP-11	TEMPORARY SOIL GAS SAMPLE LOCATION
PVP-3	PERMANENT SOIL GAS SAMPLE LOCATION
	BUILDING
	PROPERTY LINE

ENVIRONMENTAL INVESTIGATION AND RELATED ENVIRONMENTAL CONSULTING SERVICES
NEW BEDFORD HIGH SCHOOL & SURROUNDING NEIGHBORHOOD
NEW BEDFORD, MASSACHUSETTS

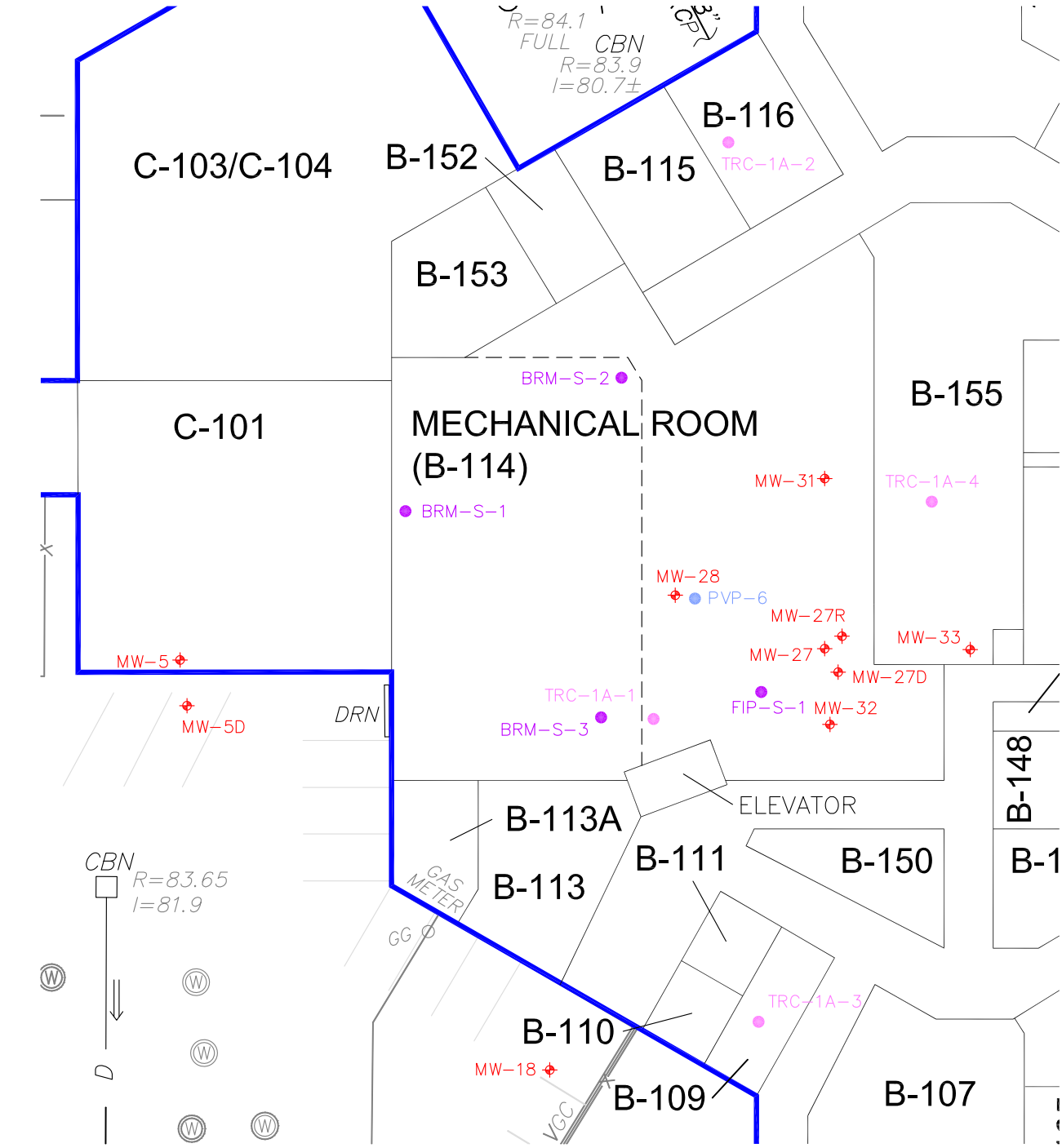
NEW BEDFORD HIGH SCHOOL
SITE PLAN WITH SAMPLING LOCATIONS

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

FIGURE 2

DRAWN BY: HWB
DATE: MAY 2011
CHECKED BY: ACL

FILE: T:\E_CAD\115058\NBHS SURVEY - SAMPLING - MR-3.dwg



LEGEND:

MW-19	MONITORING WELL LOCATION
HS-D-2	STORM DRAIN SAMPLE LOCATION
BRM-S-1	GROUNDWATER SEEP SAMPLE LOCATION
TRC-1A-4	INDOOR AIR SAMPLE LOCATION
PVP-3	PERMANENT SOIL GAS SAMPLE LOCATION
	BUILDING

APPROXIMATE GRAPHIC SCALE

0' 30' 60'

ENVIRONMENTAL INVESTIGATION AND RELATED
ENVIRONMENTAL CONSULTING SERVICES
NEW BEDFORD HIGH SCHOOL & SURROUNDING
NEIGHBORHOOD
NEW BEDFORD, MASSACHUSETTS

NEW BEDFORD HIGH SCHOOL

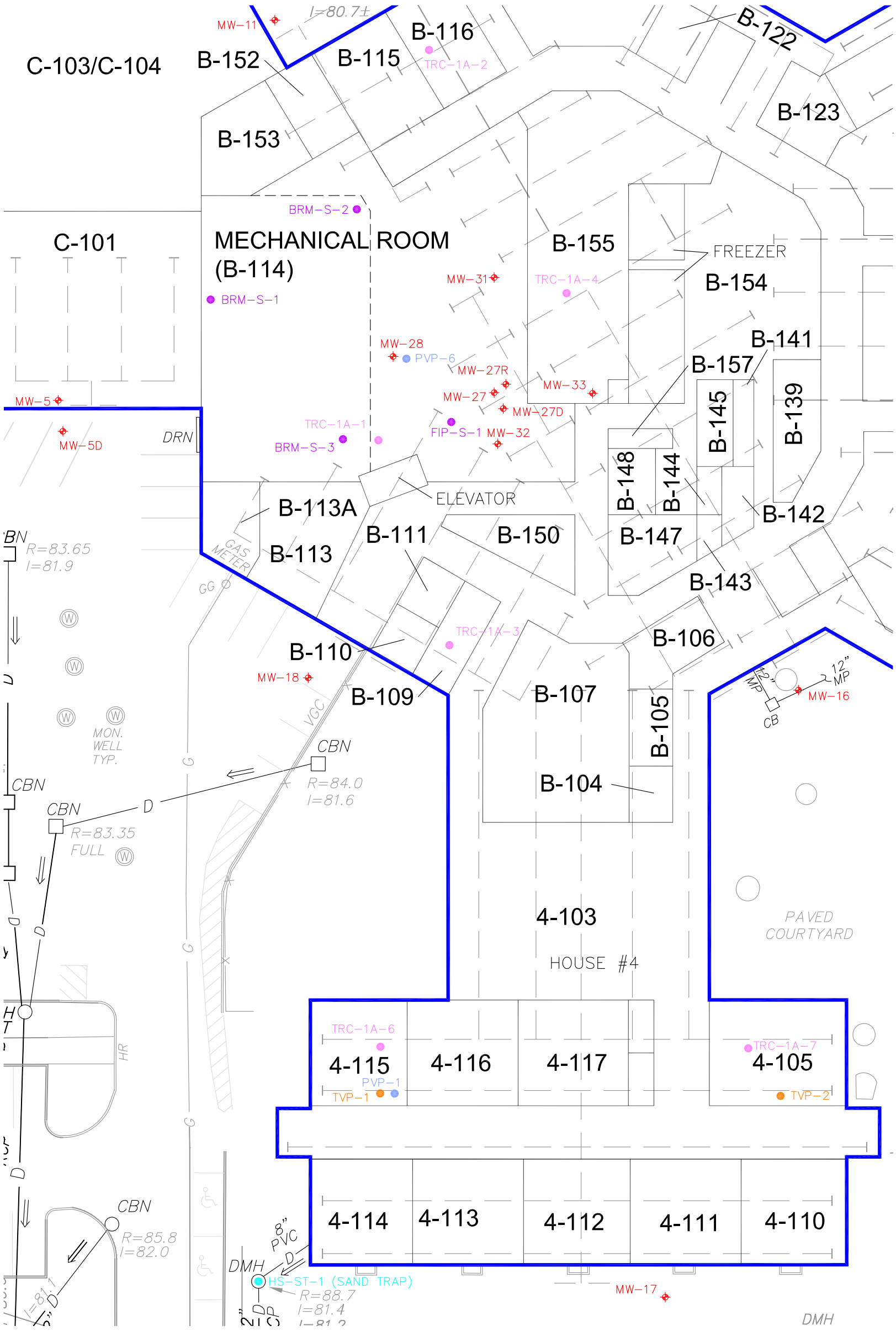
DETAIL OF SITE PLAN IN VICINITY OF MECHANICAL ROOM

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

FIGURE 3

DRAWN BY: HWB
CHECKED BY: ACL
DATE: MAY 2011

FILE: T:\E_CAD\115058\NBHS SURVEY - SAMPLING - MR-3.dwg



LEGEND:

MW-19	MONITORING WELL LOCATION (SELECT INTERIOR LOCATIONS APPROXIMATE)
HS-D-2	STORM DRAIN SAMPLE LOCATION
BRM-S-1	GROUNDWATER SEEP SAMPLE LOCATION
TRC-1A-4	INDOOR AIR SAMPLE LOCATION
PVP-3	PERMANENT SOIL GAS SAMPLE LOCATION
	BUILDING
4-114	INTERIOR ROOM AND DESIGNATION
	APPROXIMATE UNDERDRAIN

NOTE:
UNDERDRAIN INFORMATION FROM "SITE UTILITIES PLAN, NEW BEDFORD HIGH SCHOOL" BY OWEN F. HACKETT, JR. ASSOCIATES ARCHITECTS.

APPROXIMATE GRAPHIC SCALE
0' 30' 60'

ENVIRONMENTAL INVESTIGATION AND RELATED ENVIRONMENTAL CONSULTING SERVICES
NEW BEDFORD HIGH SCHOOL & SURROUNDING NEIGHBORHOOD
NEW BEDFORD, MASSACHUSETTS

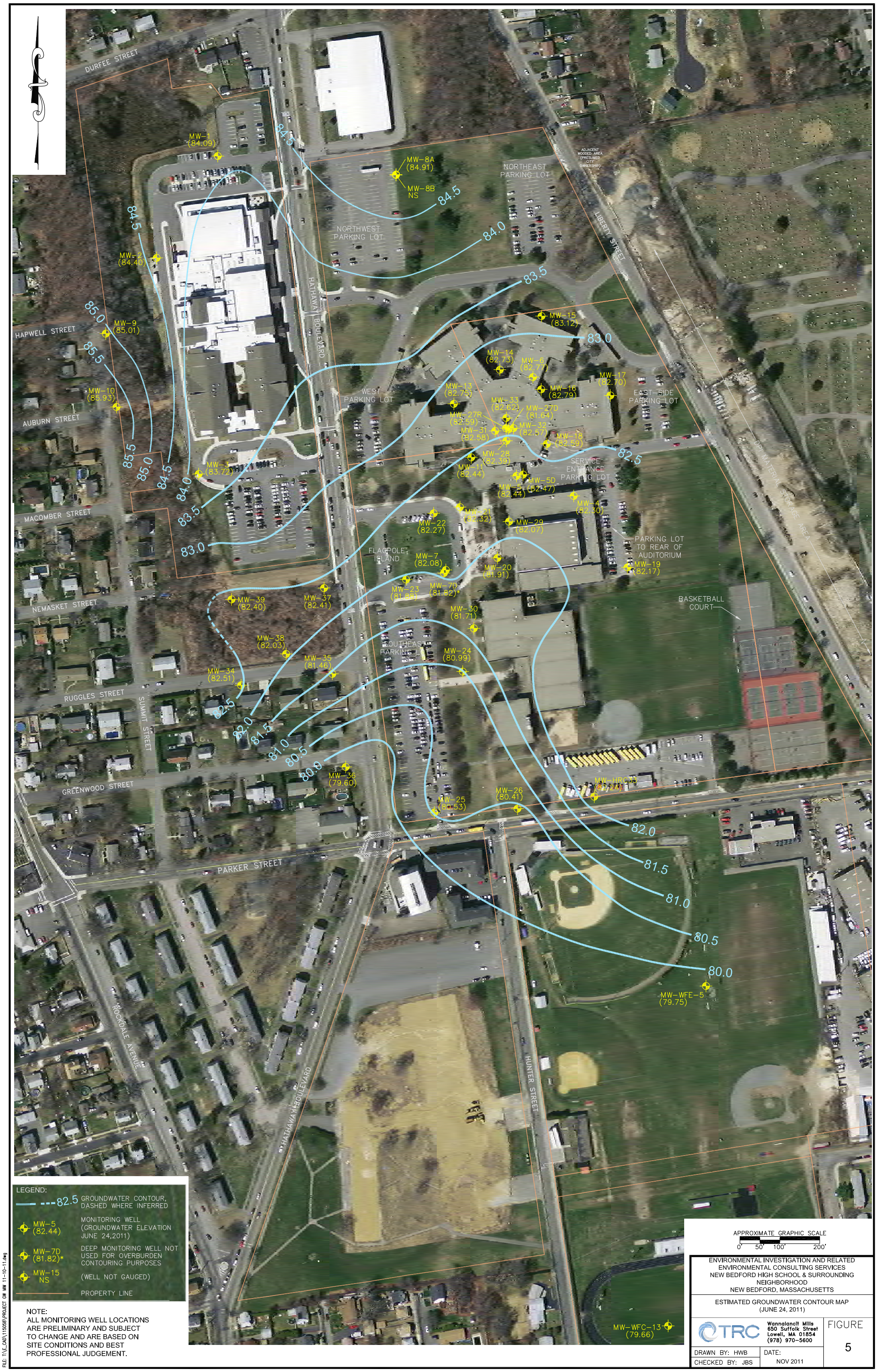
NEW BEDFORD HIGH SCHOOL - DETAIL OF SITE PLAN
WITH APPROXIMATE UNDERDRAIN SYSTEM

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

DRAWN BY: HWB
CHECKED BY: ACL
DATE: NOV 2011

FIGURE 4

FILE: T:\E_CAD\115058\NBHS SURVEY - SAMPLING - MR-3.dwg



LEGEND:

82.5	GROUNDWATER CONTOUR, DASHED WHERE INFERRED
MW-5 (82.44)	MONITORING WELL (GROUNDWATER ELEVATION JUNE 24,2011)
MW-7D (81.82)*	DEEP MONITORING WELL NOT USED FOR OVERBURDEN CONTOURING PURPOSES
MW-15 NS	(WELL NOT GAUGED)
	PROPERTY LINE

NOTE:
ALL MONITORING WELL LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE AND ARE BASED ON SITE CONDITIONS AND BEST PROFESSIONAL JUDGEMENT.

APPROXIMATE GRAPHIC SCALE
0' 50' 100' 200'

ENVIRONMENTAL INVESTIGATION AND RELATED ENVIRONMENTAL CONSULTING SERVICES
NEW BEDFORD HIGH SCHOOL & SURROUNDING NEIGHBORHOOD
NEW BEDFORD, MASSACHUSETTS

ESTIMATED GROUNDWATER CONTOUR MAP
(JUNE 24, 2011)

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

FIGURE
5

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

FILE: T:\E_CAD\115058\PROJECT GW MW 11-10-11.dwg

APPENDIX A

LABORATORY DATA REPORTS

Date Samples Received: 08/02/11

Client Name :	**United Oil Recovery**	CTL Lab No. :	0811024
Report Date :	08/02/11	PO/ Job No. :	City of New Bedford

RESULTS OF ANALYSIS

EPA Method 8082

Matrix Type : **O**
CTL Sample No.: **10068**
Field ID : **S080211-038**

Parameters	**RL**				
Total PCBs-ppm	5	160*			

*as Ac 1254

RL= Reporting Limit **ND**= Not Detected

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

ANALYTICAL REPORT

Lab Number:	L1111395
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS MECH ROOM
Project Number:	115058
Report Date:	08/04/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111395-01	MW-32	NBHS NEW BEDFORD	07/27/11 19:00
L1111395-02	MW-27D	NBHS NEW BEDFORD	07/27/11 19:05
L1111395-03	MW-27R	NBHS NEW BEDFORD	07/27/11 19:55
L1111395-04	MW-28	NBHS NEW BEDFORD	07/27/11 20:20
L1111395-05	DUP	NBHS NEW BEDFORD	07/27/11 20:55
L1111395-06	TRIP BLANK	NBHS NEW BEDFORD	07/27/11 00:00

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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: NBHS MECH ROOM **Lab Number:** L1111395
Project Number: 115058 **Report Date:** 08/04/11

Case Narrative

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

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

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

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

MCP Related Narratives

Volatile Organics

L1111395-01, -03 and -05 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1111395-01, -03 and -05: None of the target analytes achieved the requested CAM reporting limits.

L1111395-02, -04 and -06: The requested CAM reporting limit was not achieved for Tetrahydrofuran.

In reference to question H:

The WG482539-1 LCS recovery, associated with L1111395-03, -05 and -06, is below the individual acceptance criteria for Dibromochloromethane (66%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

Project Name: NBHS MECH ROOM **Lab Number:** L1111395
Project Number: 115058 **Report Date:** 08/04/11

Case Narrative (continued)

The WG482539-1/-2 LCS/LCSD RPD, associated with L1111395-03, -05 and -06, is above the acceptance criteria for Acetone (31%); however, the individual LCS/LCSD recoveries are within method limits.
The initial calibration, associated with L1111395-01 through -06, did not meet the method required minimum response factors on the lowest calibration standards for 2-Butanone (0.08231), 4-Methyl-2-pentanone (0.05843) and 1,4-Dioxane (0.00118), as well as the average response factor for 2-Butanone, 4-Methyl-2-pentanone and 1,4-Dioxane,. In addition, a quadratic fit was utilized for Acetone and Bromoform.
The continuing calibration standards, associated with L1111395-01 through -06, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

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: 08/04/11

ORGANICS

VOLATILES

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-01	D	Date Collected:	07/27/11 19:00
Client ID:	MW-32		Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/01/11 17:16			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	100	--	50
1,1-Dichloroethane	ND		ug/l	50	--	50
Chloroform	ND		ug/l	50	--	50
Carbon tetrachloride	ND		ug/l	50	--	50
1,2-Dichloropropane	ND		ug/l	50	--	50
Dibromochloromethane	ND		ug/l	50	--	50
1,1,2-Trichloroethane	ND		ug/l	50	--	50
Tetrachloroethene	ND		ug/l	50	--	50
Chlorobenzene	ND		ug/l	50	--	50
Trichlorofluoromethane	ND		ug/l	100	--	50
1,2-Dichloroethane	ND		ug/l	50	--	50
1,1,1-Trichloroethane	ND		ug/l	50	--	50
Bromodichloromethane	ND		ug/l	50	--	50
trans-1,3-Dichloropropene	ND		ug/l	25	--	50
cis-1,3-Dichloropropene	ND		ug/l	25	--	50
1,1-Dichloropropene	ND		ug/l	100	--	50
Bromoform	ND		ug/l	100	--	50
1,1,2,2-Tetrachloroethane	ND		ug/l	50	--	50
Benzene	ND		ug/l	25	--	50
Toluene	ND		ug/l	50	--	50
Ethylbenzene	ND		ug/l	50	--	50
Chloromethane	ND		ug/l	100	--	50
Bromomethane	ND		ug/l	100	--	50
Vinyl chloride	ND		ug/l	50	--	50
Chloroethane	ND		ug/l	100	--	50
1,1-Dichloroethene	ND		ug/l	50	--	50
trans-1,2-Dichloroethene	ND		ug/l	50	--	50
Trichloroethene	2600		ug/l	50	--	50
1,2-Dichlorobenzene	ND		ug/l	50	--	50
1,3-Dichlorobenzene	ND		ug/l	50	--	50
1,4-Dichlorobenzene	ND		ug/l	50	--	50

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-01 D Date Collected: 07/27/11 19:00

Client ID: MW-32 Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	100	--	50
p/m-Xylene	ND		ug/l	100	--	50
o-Xylene	ND		ug/l	50	--	50
cis-1,2-Dichloroethene	200		ug/l	50	--	50
Dibromomethane	ND		ug/l	100	--	50
1,2,3-Trichloropropane	ND		ug/l	100	--	50
Styrene	ND		ug/l	50	--	50
Dichlorodifluoromethane	ND		ug/l	100	--	50
Acetone	ND		ug/l	250	--	50
Carbon disulfide	ND		ug/l	100	--	50
2-Butanone	ND		ug/l	250	--	50
4-Methyl-2-pentanone	ND		ug/l	250	--	50
2-Hexanone	ND		ug/l	250	--	50
Bromochloromethane	ND		ug/l	100	--	50
Tetrahydrofuran	ND		ug/l	250	--	50
2,2-Dichloropropane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50
Bromobenzene	ND		ug/l	100	--	50
n-Butylbenzene	ND		ug/l	100	--	50
sec-Butylbenzene	ND		ug/l	100	--	50
tert-Butylbenzene	ND		ug/l	100	--	50
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
1,2-Dibromo-3-chloropropane	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
Isopropylbenzene	ND		ug/l	100	--	50
p-Isopropyltoluene	ND		ug/l	100	--	50
Naphthalene	ND		ug/l	100	--	50
n-Propylbenzene	ND		ug/l	100	--	50
1,2,3-Trichlorobenzene	ND		ug/l	100	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50
1,3,5-Trimethylbenzene	ND		ug/l	100	--	50
1,2,4-Trimethylbenzene	ND		ug/l	100	--	50
Ethyl ether	ND		ug/l	100	--	50
Isopropyl Ether	ND		ug/l	100	--	50
Ethyl-Tert-Butyl-Ether	ND		ug/l	100	--	50
Tertiary-Amyl Methyl Ether	ND		ug/l	100	--	50

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-01 D Date Collected: 07/27/11 19:00

Client ID: MW-32 Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	12000	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-02	Date Collected:	07/27/11 19:05
Client ID:	MW-27D	Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/01/11 17:48		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	35		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	7.5		ug/l	1.0	--	1
Trichloroethene	15		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	3.0		ug/l	1.0	--	1

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-02 Date Collected: 07/27/11 19:05

Client ID: MW-27D Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	45		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-02	Date Collected:	07/27/11 19:05
Client ID:	MW-27D	Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-03	D	Date Collected:	07/27/11 19:55
Client ID:	MW-27R		Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/02/11 15:41			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	400	--	200
1,1-Dichloroethane	ND		ug/l	200	--	200
Chloroform	ND		ug/l	200	--	200
Carbon tetrachloride	ND		ug/l	200	--	200
1,2-Dichloropropane	ND		ug/l	200	--	200
Dibromochloromethane	ND		ug/l	200	--	200
1,1,2-Trichloroethane	ND		ug/l	200	--	200
Tetrachloroethene	ND		ug/l	200	--	200
Chlorobenzene	ND		ug/l	200	--	200
Trichlorofluoromethane	ND		ug/l	400	--	200
1,2-Dichloroethane	ND		ug/l	200	--	200
1,1,1-Trichloroethane	ND		ug/l	200	--	200
Bromodichloromethane	ND		ug/l	200	--	200
trans-1,3-Dichloropropene	ND		ug/l	100	--	200
cis-1,3-Dichloropropene	ND		ug/l	100	--	200
1,1-Dichloropropene	ND		ug/l	400	--	200
Bromoform	ND		ug/l	400	--	200
1,1,2,2-Tetrachloroethane	ND		ug/l	200	--	200
Benzene	ND		ug/l	100	--	200
Toluene	ND		ug/l	200	--	200
Ethylbenzene	ND		ug/l	200	--	200
Chloromethane	ND		ug/l	400	--	200
Bromomethane	ND		ug/l	400	--	200
Vinyl chloride	1900		ug/l	200	--	200
Chloroethane	ND		ug/l	400	--	200
1,1-Dichloroethene	ND		ug/l	200	--	200
trans-1,2-Dichloroethene	2200		ug/l	200	--	200
Trichloroethene	16000		ug/l	200	--	200
1,2-Dichlorobenzene	ND		ug/l	200	--	200
1,3-Dichlorobenzene	ND		ug/l	200	--	200
1,4-Dichlorobenzene	ND		ug/l	200	--	200

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-03 D Date Collected: 07/27/11 19:55

Client ID: MW-27R Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	400	--	200
p/m-Xylene	ND		ug/l	400	--	200
o-Xylene	ND		ug/l	200	--	200
cis-1,2-Dichloroethene	14000		ug/l	200	--	200
Dibromomethane	ND		ug/l	400	--	200
1,2,3-Trichloropropane	ND		ug/l	400	--	200
Styrene	ND		ug/l	200	--	200
Dichlorodifluoromethane	ND		ug/l	400	--	200
Acetone	ND		ug/l	1000	--	200
Carbon disulfide	ND		ug/l	400	--	200
2-Butanone	ND		ug/l	1000	--	200
4-Methyl-2-pentanone	ND		ug/l	1000	--	200
2-Hexanone	ND		ug/l	1000	--	200
Bromochloromethane	ND		ug/l	400	--	200
Tetrahydrofuran	ND		ug/l	1000	--	200
2,2-Dichloropropane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
Bromobenzene	ND		ug/l	400	--	200
n-Butylbenzene	ND		ug/l	400	--	200
sec-Butylbenzene	ND		ug/l	400	--	200
tert-Butylbenzene	ND		ug/l	400	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
1,2-Dibromo-3-chloropropane	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
Isopropylbenzene	ND		ug/l	400	--	200
p-Isopropyltoluene	ND		ug/l	400	--	200
Naphthalene	ND		ug/l	400	--	200
n-Propylbenzene	ND		ug/l	400	--	200
1,2,3-Trichlorobenzene	ND		ug/l	400	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200
1,3,5-Trimethylbenzene	ND		ug/l	400	--	200
1,2,4-Trimethylbenzene	ND		ug/l	400	--	200
Ethyl ether	ND		ug/l	400	--	200
Isopropyl Ether	ND		ug/l	400	--	200
Ethyl-Tert-Butyl-Ether	ND		ug/l	400	--	200
Tertiary-Amyl Methyl Ether	ND		ug/l	400	--	200

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-03 D Date Collected: 07/27/11 19:55

Client ID: MW-27R Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	50000	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-04	Date Collected:	07/27/11 20:20
Client ID:	MW-28	Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/01/11 18:51		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	28		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	0.56		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	36		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	51		ug/l	1.0	--	1
Trichloroethene	87		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	3.8		ug/l	1.0	--	1
1,4-Dichlorobenzene	12		ug/l	1.0	--	1

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-04 Date Collected: 07/27/11 20:20

Client ID: MW-28 Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	170		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-04	Date Collected:	07/27/11 20:20
Client ID:	MW-28	Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-05	D	Date Collected:	07/27/11 20:55
Client ID:	DUP		Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/02/11 16:12			
Analyst:	MM			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	200	--	100
1,1-Dichloroethane	ND		ug/l	100	--	100
Chloroform	ND		ug/l	100	--	100
Carbon tetrachloride	ND		ug/l	100	--	100
1,2-Dichloropropane	ND		ug/l	100	--	100
Dibromochloromethane	ND		ug/l	100	--	100
1,1,2-Trichloroethane	ND		ug/l	100	--	100
Tetrachloroethene	ND		ug/l	100	--	100
Chlorobenzene	ND		ug/l	100	--	100
Trichlorofluoromethane	ND		ug/l	200	--	100
1,2-Dichloroethane	ND		ug/l	100	--	100
1,1,1-Trichloroethane	ND		ug/l	100	--	100
Bromodichloromethane	ND		ug/l	100	--	100
trans-1,3-Dichloropropene	ND		ug/l	50	--	100
cis-1,3-Dichloropropene	ND		ug/l	50	--	100
1,1-Dichloropropene	ND		ug/l	200	--	100
Bromoform	ND		ug/l	200	--	100
1,1,2,2-Tetrachloroethane	ND		ug/l	100	--	100
Benzene	ND		ug/l	50	--	100
Toluene	ND		ug/l	100	--	100
Ethylbenzene	ND		ug/l	100	--	100
Chloromethane	ND		ug/l	200	--	100
Bromomethane	ND		ug/l	200	--	100
Vinyl chloride	1300		ug/l	100	--	100
Chloroethane	ND		ug/l	200	--	100
1,1-Dichloroethene	ND		ug/l	100	--	100
trans-1,2-Dichloroethene	1700		ug/l	100	--	100
Trichloroethene	13000		ug/l	100	--	100
1,2-Dichlorobenzene	ND		ug/l	100	--	100
1,3-Dichlorobenzene	ND		ug/l	100	--	100
1,4-Dichlorobenzene	ND		ug/l	100	--	100

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-05 D Date Collected: 07/27/11 20:55

Client ID: DUP Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	200	--	100
p/m-Xylene	ND		ug/l	200	--	100
o-Xylene	ND		ug/l	100	--	100
cis-1,2-Dichloroethene	11000		ug/l	100	--	100
Dibromomethane	ND		ug/l	200	--	100
1,2,3-Trichloropropane	ND		ug/l	200	--	100
Styrene	ND		ug/l	100	--	100
Dichlorodifluoromethane	ND		ug/l	200	--	100
Acetone	ND		ug/l	500	--	100
Carbon disulfide	ND		ug/l	200	--	100
2-Butanone	ND		ug/l	500	--	100
4-Methyl-2-pentanone	ND		ug/l	500	--	100
2-Hexanone	ND		ug/l	500	--	100
Bromochloromethane	ND		ug/l	200	--	100
Tetrahydrofuran	ND		ug/l	500	--	100
2,2-Dichloropropane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
Bromobenzene	ND		ug/l	200	--	100
n-Butylbenzene	ND		ug/l	200	--	100
sec-Butylbenzene	ND		ug/l	200	--	100
tert-Butylbenzene	ND		ug/l	200	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
1,2-Dibromo-3-chloropropane	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
Isopropylbenzene	ND		ug/l	200	--	100
p-Isopropyltoluene	ND		ug/l	200	--	100
Naphthalene	ND		ug/l	200	--	100
n-Propylbenzene	ND		ug/l	200	--	100
1,2,3-Trichlorobenzene	ND		ug/l	200	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100
1,3,5-Trimethylbenzene	ND		ug/l	200	--	100
1,2,4-Trimethylbenzene	ND		ug/l	200	--	100
Ethyl ether	ND		ug/l	200	--	100
Isopropyl Ether	ND		ug/l	200	--	100
Ethyl-Tert-Butyl-Ether	ND		ug/l	200	--	100
Tertiary-Amyl Methyl Ether	ND		ug/l	200	--	100

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-05 D Date Collected: 07/27/11 20:55

Client ID: DUP Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	25000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111395-06	Date Collected:	07/27/11 00:00
Client ID:	TRIP BLANK	Date Received:	07/28/11
Sample Location:	NBHS NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/02/11 16:44		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-06 Date Collected: 07/27/11 00:00

Client ID: TRIP BLANK Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID: L1111395-06 Date Collected: 07/27/11 00:00

Client ID: TRIP BLANK Date Received: 07/28/11

Sample Location: NBHS NEW BEDFORD Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/01/11 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG482523-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/01/11 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG482523-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/01/11 13:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG482523-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/02/11 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03,05-06 Batch: WG482539-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/02/11 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03,05-06 Batch: WG482539-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS MECH ROOM **Lab Number:** L1111395

Project Number: 115058 **Report Date:** 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/02/11 11:28
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03,05-06 Batch: WG482539-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--
2-Chloroethylvinyl ether	ND		ug/l	10	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG482523-1 WG482523-2								
Methylene chloride	101		102		70-130	1		20
1,1-Dichloroethane	106		106		70-130	0		20
Chloroform	106		106		70-130	0		20
Carbon tetrachloride	100		102		70-130	2		20
1,2-Dichloropropane	105		106		70-130	1		20
Dibromochloromethane	89		93		70-130	4		20
1,1,2-Trichloroethane	108		108		70-130	0		20
Tetrachloroethene	111		109		70-130	2		20
Chlorobenzene	104		104		70-130	0		20
Trichlorofluoromethane	105		107		70-130	2		20
1,2-Dichloroethane	105		109		70-130	4		20
1,1,1-Trichloroethane	103		105		70-130	2		20
Bromodichloromethane	100		104		70-130	4		20
trans-1,3-Dichloropropene	107		108		70-130	1		20
cis-1,3-Dichloropropene	101		101		70-130	0		20
1,1-Dichloropropene	104		104		70-130	0		20
Bromoform	105		112		70-130	6		20
1,1,2,2-Tetrachloroethane	108		113		70-130	5		20
Benzene	106		105		70-130	1		20
Toluene	105		103		70-130	2		20
Ethylbenzene	110		107		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG482523-1 WG482523-2								
Chloromethane	101		98		70-130	3		20
Bromomethane	98		96		70-130	2		20
Vinyl chloride	106		106		70-130	0		20
Chloroethane	108		106		70-130	2		20
1,1-Dichloroethene	101		101		70-130	0		20
trans-1,2-Dichloroethene	105		103		70-130	2		20
Trichloroethene	107		106		70-130	1		20
1,2-Dichlorobenzene	107		110		70-130	3		20
1,3-Dichlorobenzene	109		110		70-130	1		20
1,4-Dichlorobenzene	108		110		70-130	2		20
Methyl tert butyl ether	81		84		70-130	4		20
p/m-Xylene	110		108		70-130	2		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	106		105		70-130	1		20
Dibromomethane	108		114		70-130	5		20
1,2,3-Trichloropropane	106		112		70-130	6		20
Styrene	97		97		70-130	0		20
Dichlorodifluoromethane	113		113		70-130	0		20
Acetone	99		99		70-130	0		20
Carbon disulfide	75		74		70-130	1		20
2-Butanone	93		97		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG482523-1 WG482523-2								
4-Methyl-2-pentanone	88		94		70-130	7		20
2-Hexanone	89		93		70-130	4		20
Bromochloromethane	104		106		70-130	2		20
Tetrahydrofuran	84		86		70-130	2		20
2,2-Dichloropropane	106		104		70-130	2		20
1,2-Dibromoethane	107		111		70-130	4		20
1,3-Dichloropropane	106		108		70-130	2		20
1,1,1,2-Tetrachloroethane	102		104		70-130	2		20
Bromobenzene	108		110		70-130	2		20
n-Butylbenzene	113		108		70-130	5		20
sec-Butylbenzene	116		111		70-130	4		20
tert-Butylbenzene	114		110		70-130	4		20
o-Chlorotoluene	107		106		70-130	1		20
p-Chlorotoluene	110		108		70-130	2		20
1,2-Dibromo-3-chloropropane	93		91		70-130	2		20
Hexachlorobutadiene	120		117		70-130	3		20
Isopropylbenzene	112		109		70-130	3		20
p-Isopropyltoluene	119		115		70-130	3		20
Naphthalene	112		117		70-130	4		20
n-Propylbenzene	115		111		70-130	4		20
1,2,3-Trichlorobenzene	110		114		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058
Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG482523-1 WG482523-2								
1,2,4-Trichlorobenzene	116		119		70-130	3		20
1,3,5-Trimethylbenzene	110		106		70-130	4		20
1,2,4-Trimethylbenzene	111		111		70-130	0		20
Ethyl ether	81		84		70-130	4		20
Isopropyl Ether	84		86		70-130	2		20
Ethyl-Tert-Butyl-Ether	84		86		70-130	2		20
Tertiary-Amyl Methyl Ether	88		91		70-130	3		20
1,4-Dioxane	118		107		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	102		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058
Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03,05-06 Batch: WG482539-1 WG482539-2								
Methylene chloride	91		98		70-130	7		20
1,1-Dichloroethane	94		98		70-130	4		20
Chloroform	91		96		70-130	5		20
Carbon tetrachloride	79		86		70-130	8		20
1,2-Dichloropropane	92		96		70-130	4		20
Dibromochloromethane	**66**	Q	76		70-130	14		20
1,1,2-Trichloroethane	93		97		70-130	4		20
Tetrachloroethene	97		102		70-130	5		20
Chlorobenzene	91		95		70-130	4		20
Trichlorofluoromethane	92		98		70-130	6		20
1,2-Dichloroethane	91		95		70-130	4		20
1,1,1-Trichloroethane	85		91		70-130	7		20
Bromodichloromethane	80		87		70-130	8		20
trans-1,3-Dichloropropene	79		84		70-130	6		20
cis-1,3-Dichloropropene	77		83		70-130	8		20
1,1-Dichloropropene	88		93		70-130	6		20
Bromoform	79		88		70-130	11		20
1,1,2,2-Tetrachloroethane	92		99		70-130	7		20
Benzene	94		96		70-130	2		20
Toluene	91		95		70-130	4		20
Ethylbenzene	96		99		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03,05-06 Batch: WG482539-1 WG482539-2								
Chloromethane	87		90		70-130	3		20
Bromomethane	89		95		70-130	7		20
Vinyl chloride	90		98		70-130	9		20
Chloroethane	95		99		70-130	4		20
1,1-Dichloroethene	88		94		70-130	7		20
trans-1,2-Dichloroethene	91		96		70-130	5		20
Trichloroethene	96		98		70-130	2		20
1,2-Dichlorobenzene	95		101		70-130	6		20
1,3-Dichlorobenzene	97		101		70-130	4		20
1,4-Dichlorobenzene	97		102		70-130	5		20
Methyl tert butyl ether	74		80		70-130	8		20
p/m-Xylene	96		101		70-130	5		20
o-Xylene	92		97		70-130	5		20
cis-1,2-Dichloroethene	93		98		70-130	5		20
Dibromomethane	94		98		70-130	4		20
1,2,3-Trichloropropane	92		95		70-130	3		20
Styrene	90		98		70-130	9		20
Dichlorodifluoromethane	86		90		70-130	5		20
Acetone	90		123		70-130	**31**	Q	20
Carbon disulfide	80		86		70-130	7		20
2-Butanone	84		93		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03,05-06 Batch: WG482539-1 WG482539-2								
4-Methyl-2-pentanone	74		79		70-130	7		20
2-Hexanone	71		76		70-130	7		20
Bromochloromethane	91		99		70-130	8		20
Tetrahydrofuran	72		79		70-130	9		20
2,2-Dichloropropane	83		85		70-130	2		20
1,2-Dibromoethane	85		96		70-130	12		20
1,3-Dichloropropane	89		96		70-130	8		20
1,1,1,2-Tetrachloroethane	82		89		70-130	8		20
Bromobenzene	97		102		70-130	5		20
n-Butylbenzene	99		101		70-130	2		20
sec-Butylbenzene	101		101		70-130	0		20
tert-Butylbenzene	98		100		70-130	2		20
o-Chlorotoluene	94		98		70-130	4		20
p-Chlorotoluene	95		100		70-130	5		20
1,2-Dibromo-3-chloropropane	76		82		70-130	8		20
Hexachlorobutadiene	98		105		70-130	7		20
Isopropylbenzene	96		101		70-130	5		20
p-Isopropyltoluene	103		106		70-130	3		20
Naphthalene	82		91		70-130	10		20
n-Propylbenzene	101		101		70-130	0		20
1,2,3-Trichlorobenzene	85		95		70-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058
Lab Number: L1111395
Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 03,05-06 Batch: WG482539-1 WG482539-2								
1,2,4-Trichlorobenzene	93		100		70-130	7		20
1,3,5-Trimethylbenzene	97		100		70-130	3		20
1,2,4-Trimethylbenzene	99		102		70-130	3		20
Ethyl ether	78		82		70-130	5		20
Isopropyl Ether	81		86		70-130	6		20
Ethyl-Tert-Butyl-Ether	77		82		70-130	6		20
Tertiary-Amyl Methyl Ether	79		84		70-130	6		20
1,4-Dioxane	79		81		70-130	3		20
2-Chloroethylvinyl ether	86		90		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	101		101		70-130

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111395
Report Date: 08/04/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111395-01A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-01B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-02A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-02B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-03A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-03B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-04A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-04B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-05A	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-05B	Vial HCl preserved	A	N/A	4	Y	Absent	MCP-8260-10(14)
L1111395-06A	Vial HCl preserved	A	N/A	4	Y	Present/Intact	MCP-8260-10(14)
L1111395-06B	Vial HCl preserved	A	N/A	4	Y	Present/Intact	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS MECH ROOM	**Lab Number:**	L1111395
Project Number:	115058	**Report Date:**	08/04/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name:	NBHS MECH ROOM	**Lab Number:**	L1111395
Project Number:	115058	**Report Date:**	08/04/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	NBHS MECH ROOM	**Lab Number:**	L1111395
Project Number:	115058	**Report Date:**	08/04/11

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 07-28-11

ALPHA Job #: L1111395

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC SOLUTIONS
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978 970 5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD@ " "
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH ROOM
Project Location: NBHS NEW BEDFORD.
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!) 5-DAY
Date Due: 08/04/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State /Fed Program MA MCP. Criteria GW-2

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

MCP GW-2

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs by 8260	Sample Specific Comments	Total # Bottles
L1395-01	MW-32	7/27	19:00	GW	JF	✓		
02	MW-27D	7/27	19:05	GW	JF	✓		
03	MW-27R	7/27	19:55	GW	JF	✓		
04	MW-28	7/27	20:20	GW	JF	✓		
05	DUP	7/27	20:55	GW	JF	✓		
06	TRIP BLANK	—	—	DW	JF	✓		

Container Type	V
Preservative	B

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Jason Fiero	7/28 14:25	P. Gilbert	7/28/11 14:15
P. Gilbert	7/28/11 1615	Kate Moss	7/28/11 1615

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08041120:53

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111395

Instrument ID: Quimby.i Calibration Date: 02-AUG-2011 Time: 09:54

Lab File ID: 0802A01 Init. Calib. Date(s): 31-JUL-2 31-JUL-2

Sample No: wg482539-1,31,1 Init. Calib. Times : 12:24 16:04

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.34052	.29232	.1	14	20	
chloromethane	.48216	.41849	.1	13	20	
vinyl chloride	.32368	.29056	.1	10	20	
bromomethane	.23537	.20903	.1	11	20	
chloroethane	.24595	.2328	.1	5	20	
trichlorofluoromethane	.5003	.45912	.1	8	20	
ethyl ether	.12499	.09741	.05	22	20	F
acetone	100	89.759	.1	10	20	
1,1,-dichloroethene	.29985	.26431	.1	12	20	
methylene chloride	.31957	.29013	.1	9	20	
carbon disulfide	.87292	.70063	.1	20	20	
methyl tert butyl ether	.5819	.43261	.1	26	20	F
trans-1,2-dichloroethene	.32783	.29794	.1	9	20	
Diisopropyl Ether	1.0664	.86041	.05	19	20	
1,1-dichloroethane	.63323	.59263	.2	6	20	
Ethyl-Tert-Butyl-Ether	.85934	.66178	.05	23	20	F
2-butanone	.06811	.05722	.1	16	20	F
2,2-dichloropropane	.46291	.38377	.05	17	20	
cis-1,2-dichloroethene	.34093	.31848	.1	7	20	
chloroform	.55646	.5081	.2	9	20	
bromochloromethane	.12558	.11479	.05	9	20	
tetrahydrofuran	100	72.430	.05	28	20	F
1,1,1-trichloroethane	.51459	.43671	.1	15	20	
1,1-dichloropropene	.48969	.42839	.05	13	20	
carbontetrachloride	.40816	.32301	.1	21	20	F
Tertiary-Amyl Methyl Ether	.60147	.47462	.05	21	20	F
1,2-dichloroethane	.35746	.32455	.1	9	20	
benzene	1.3769	1.2899	.5	6	20	
trichloroethene	.34523	.32998	.2	4	20	
1,2-dichloropropane	.31876	.29377	.1	8	20	
bromodichloromethane	.3366	.26881	.2	20	20	F
1,4-dioxane	.00113	.00089	.05	21	20	F
dibromomethane	.11984	.11311	.05	6	20	
4-methyl-2-pentanone	.05629	.04163	.1	26	20	F
cis-1,3-dichloropropene	.42735	.32907	.2	23	20	F
toluene	1.1370	1.0335	.4	9	20	
trans-1,3-dichloropropene	.42338	.33389	.1	21	20	F
1,1,2-trichloroethane	.19059	.17758	.1	7	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111395

Instrument ID: Quimby.i Calibration Date: 02-AUG-2011 Time: 09:54

Lab File ID: 0802A01 Init. Calib. Date(s): 31-JUL-2 31-JUL-2

Sample No: wg482539-1,31,1 Init. Calib. Times : 12:24 16:04

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.13309	.09425	.1	29	20	F
1,3-dichloropropane	.43209	.38634	.05	11	20	
tetrachloroethene	.45213	.43903	.2	3	20	
chlorodibromomethane	.25183	.16548	.1	34	20	F
1,2-dibromoethane	.21253	.18056	.1	15	20	
chlorobenzene	1.1965	1.0841	.5	9	20	
1,1,1,2-tetrachloroethane	.34515	.28146	.05	18	20	
ethyl benzene	2.1545	2.0644	.1	4	20	
p/m xylene	.8792	.84014	.1	4	20	
o xylene	.86689	.79585	.3	8	20	
styrene	1.3863	1.2497	.31	10	20	
isopropylbenzene	2.1112	2.0250	.1	4	20	
bromoform	100	78.715	.1	21	20	F
1,1,2,2,-tetrachloroethane	.40046	.3698	.3	8	20	
1,2,3-trichloropropane	.3413	.31327	.05	8	20	
n-propylbenzene	3.9806	4.0045	.05	-1	20	
bromobenzene	.81165	.78807	.05	3	20	
1,3,5-trimethybenzene	2.9849	2.9021	.05	3	20	
2-chlorotoluene	2.7699	2.6174	.05	6	20	
4-chorotoluene	2.7001	2.5710	.05	5	20	
tert-butylbenzene	2.3889	2.3401	.05	2	20	
1,2,4-trimethylbenzene	3.0592	3.0175	.05	1	20	
sec-butylbenzene	3.2320	3.2612	.05	-1	20	
p-isopropyltoluene	2.7107	2.7934	.05	-3	20	
1,3-dichlorobenzene	1.5898	1.5387	.6	3	20	
1,4-dichlorobenzene	1.6094	1.5553	.5	3	20	
n-butylbenzene	2.7686	2.7465	.05	1	20	
1,2-dichlorobenzene	1.3714	1.3073	.4	5	20	
1,2-dibromo-3-chloropropane	.15885	.12064	.05	24	20	F
1,2,4-trichlorobenzene	.61635	.5725	.2	7	20	
hexachlorobutadiene	.25455	.24984	.05	2	20	
naphthalene	.97498	.79588	.05	18	20	
1,2,3-trichlorobenzene	.45661	.38953	.05	15	20	
dibromofluoromethane	.20969	.2109	.05	-1	20	
1,2-dichloroethane-d4	.22227	.22143	.05	0	20	
toluene-d8	1.2919	1.2837	.05	1	20	
4-bromofluorobenzene	.91495	.89296	.05	2	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111395

Instrument ID: Quimby.i Calibration Date: 01-AUG-2011 Time: 11:29

Lab File ID: 0801A01 Init. Calib. Date(s): 31-JUL-2 31-JUL-2

Sample No: icv Init. Calib. Times : 12:24 16:04

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.34052	.38371	.1	-13	20	
chloromethane	.48216	.48828	.1	-1	20	
vinyl chloride	.32368	.34475	.1	-7	20	
bromomethane	.23537	.23107	.1	2	20	
chloroethane	.24595	.26549	.1	-8	20	
trichlorofluoromethane	.5003	.52433	.1	-5	20	
ethyl ether	.12499	.10085	.05	19	20	
acrolien	100	431	.05	-331	20	F
freon-113	.30733	.24148	.1	21	20	F
acetone	100	99	.1	1	20	
1,1,-dichloroethene	.29985	.30238	.1	-1	20	
tert-butyl alcohol	.01117	.01234	.05	-10	20	F
iodomethane	.41441	.37995	.05	8	20	
methylene chloride	.31957	.32296	.1	-1	20	
carbon disulfide	.87292	.65596	.1	25	20	F
acrylonitrile	.06473	.05382	.05	17	20	
methyl tert butyl ether	.5819	.47291	.1	19	20	
Halothane	.23574	.2092	.05	11	20	
trans-1,2-dichloroethene	.32783	.34318	.1	-5	20	
Diisopropyl Ether	1.0664	.89648	.05	16	20	
vinyl acetate	.37377	.32858	.05	12	20	
1,1-dichloroethane	.63323	.67137	.2	-6	20	
Ethyl-Tert-Butyl-Ether	.85934	.71946	.05	16	20	
2-butanone	.06811	.06334	.1	7	20	F
2,2-dichloropropane	.46291	.49056	.05	-6	20	
ethyl acetate	.16587	.15513	.05	6	20	
cis-1,2-dichloroethene	.34093	.36195	.1	-6	20	
chloroform	.55646	.58936	.2	-6	20	
bromochloromethane	.12558	.13126	.05	-5	20	
tetrahydrofuran	100	83.962	.05	16	20	
1,1,1-trichloroethane	.51459	.53156	.1	-3	20	
1,1-dichloropropene	.48969	.51066	.05	-4	20	
carbontetrachloride	.40816	.40737	.1	0	20	
Tertiary-Amyl Methyl Ether	.60147	.53063	.05	12	20	
1,2-dichloroethane	.35746	.37408	.1	-5	20	
benzene	1.3769	1.4616	.5	-6	20	
trichloroethene	.34523	.36985	.2	-7	20	
1,2-dichloropropane	.31876	.33597	.1	-5	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111395

Instrument ID: Quimby.i Calibration Date: 01-AUG-2011 Time: 11:29

Lab File ID: 0801A01 Init. Calib. Date(s): 31-JUL-2 31-JUL-2

Sample No: icv Init. Calib. Times : 12:24 16:04

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
bromodichloromethane	.3366	.336	.2	0	20	
1,4-dioxane	.00113	.00134	.05	-18	20	F
dibromomethane	.11984	.12978	.05	-8	20	
2-chloroethylvinyl ether	.10182	.10194	.05	0	20	
4-methyl-2-pentanone	.05629	.04945	.1	12	20	F
cis-1,3-dichloropropene	.42735	.43349	.2	-1	20	
toluene	1.1370	1.1973	.4	-5	20	
trans-1,3-dichloropropene	.42338	.45159	.1	-7	20	
1,1,2-trichloroethane	.19059	.20495	.1	-8	20	
2-hexanone	.13309	.11798	.1	11	20	
1,3-dichloropropane	.43209	.45794	.05	-6	20	
tetrachloroethene	.45213	.50256	.2	-11	20	
chlorodibromomethane	.25183	.22302	.1	11	20	
1,2-dibromoethane	.21253	.22685	.1	-7	20	
chlorobenzene	1.1965	1.2491	.5	-4	20	
1,1,1,2-tetrachloroethane	.34515	.35263	.05	-2	20	
ethyl benzene	2.1545	2.3685	.1	-10	20	
p/m xylene	.8792	.9638	.1	-10	20	
o xylene	.86689	.85326	.3	2	20	
styrene	1.3863	1.3498	.31	3	20	
isopropylbenzene	2.1112	2.3758	.1	-13	20	
trans-1,4-dichloro-2-butene	.0485	------	.05	---	20	F
bromoform	100	105	.1	-5	20	
1,1,2,2,-tetrachloroethane	.40046	.43097	.3	-8	20	
1,2,3-trichloropropane	.3413	.3603	.05	-6	20	
n-propylbenzene	3.9806	4.5803	.05	-15	20	
bromobenzene	.81165	.87642	.05	-8	20	
4-ethyltoluene	1.6786	1.5187	.05	10	20	
1,3,5-trimethybenzene	2.9849	3.2726	.05	-10	20	
2-chlorotoluene	2.7699	2.9555	.05	-7	20	
4-chorotoluene	2.7001	2.9587	.05	-10	20	
tert-butylbenzene	2.3889	2.7220	.05	-14	20	
1,2,4-trimethylbenzene	3.0592	3.4061	.05	-11	20	
sec-butylbenzene	3.2320	3.7563	.05	-16	20	
p-isopropyltoluene	2.7107	3.2322	.05	-19	20	
1,3-dichlorobenzene	1.5898	1.7358	.6	-9	20	
1,4-dichlorobenzene	1.6094	1.7476	.5	-9	20	
n-butylbenzene	2.7686	3.1385	.05	-13	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111395

Instrument ID: Quimby.i Calibration Date: 01-AUG-2011 Time: 11:29

Lab File ID: 0801A01 Init. Calib. Date(s): 31-JUL-2 31-JUL-2

Sample No: icv Init. Calib. Times : 12:24 16:04

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,2,4,5-tetramathylbenezene	.78774	.75408	.05	4	20
1,2-dichlorobenzene	1.3714	1.4720	.4	-7	20
p-diethylbenzene	1.0749	.98447	.05	8	20
1,2-dibromo-3-chloropropane	.15885	.14739	.05	7	20
1,3,5-trichlorobenzene	.91367	.83168	.01	9	30
1,2,4-trichlorobenzene	.61635	.718	.2	-16	20
hexachlorobutadiene	.25455	.30491	.05	-20	20
naphthalene	.97498	1.0930	.05	-12	20
1,2,3-trichlorobenzene	.45661	.50367	.05	-10	20
dibromofluoromethane	.20969	.21374	.05	-2	20
1,2-dichloroethane-d4	.22227	.22902	.05	-3	20
toluene-d8	1.2919	1.2855	.05	0	20
4-bromofluorobenzene	.91495	.89507	.05	2	20

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1111430
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS MECH ROOM
Project Number:	115058
Report Date:	08/04/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111430
Report Date: 08/04/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111430-01	VC072811	NEW BEDFORD	07/28/11 16:10

Project Name: NBHS MECH ROOM **Lab Number:** L1111430
Project Number: 115058 **Report Date:** 08/04/11

Case Narrative

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

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

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

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

Volatile Organics

L1111430-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative Date: 08/04/11

ORGANICS

VOLATILES

Project Name: NBHS MECH ROOM **Lab Number:** L1111430

Project Number: 115058 **Report Date:** 08/04/11

SAMPLE RESULTS

Lab ID:	L1111430-01	D	Date Collected:	07/28/11 16:10
Client ID:	VC072811		Date Received:	07/28/11
Sample Location:	NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	1,8260B			
Analytical Date:	07/29/11 13:23			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/l	2.5	--	5
Vinyl chloride	ND		ug/l	5.0	--	5
1,1-Dichloroethene	ND		ug/l	2.5	--	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	--	5
Trichloroethene	180		ug/l	2.5	--	5
cis-1,2-Dichloroethene	36		ug/l	2.5	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111430
Report Date: 08/04/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/29/11 08:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG482271-3					
Tetrachloroethene	ND		ug/l	0.50	--
Vinyl chloride	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS MECH ROOM

Project Number: 115058

Lab Number: L1111430

Report Date: 08/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG482271-1 WG482271-2								
Chlorobenzene	108		106		75-130	2		25
Benzene	99		98		76-127	1		25
Toluene	101		99		76-125	2		25
1,1-Dichloroethene	101		96		61-145	5		25
Trichloroethene	105		102		71-120	3		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	102		102		70-130

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111430
Report Date: 08/04/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111430-01A	Vial HCl preserved	A	N/A	4	Y	Absent	8260(14)
L1111430-01B	Vial HCl preserved	A	N/A	4	Y	Absent	8260(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS MECH ROOM	**Lab Number:**	L1111430
Project Number:	115058	**Report Date:**	08/04/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: NBHS MECH ROOM **Lab Number:** L1111430

Project Number: 115058 **Report Date:** 08/04/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS MECH ROOM **Lab Number:** L1111430
Project Number: 115058 **Report Date:** 08/04/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/28/11

ALPHA Job #: L1111430

Client Information

Client: TRC SOLUTIONS

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978 970 5600

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD@TRCSOLUTIONS.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH ROOM

Project Location: NEW BEDFORD

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!) 5-DAY

Date Due: 8/4/11 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All ***CAM*** methods for inorganic analyses require MS every 20 soil samples)

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 (*)	Sample Specific Comments	TOTAL # BOTTLES
11430.1	VC072811	7/28	16:10	E	JF	✓	* TRUNCATED LIST CALL AL LEONARD	

Container Type	V															
Preservative	D															

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7/28 16:10 pm	[signature]	7/28/11 18:10
[signature]	7/28/11 19:20	[signature]	7/28/11 19:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08041118:15

ANALYTICAL REPORT

Lab Number:	L1111739
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS MECH ROOM
Project Number:	115058
Report Date:	08/10/11

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Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111739
Report Date: 08/10/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111739-01	MW-32	NEW BEDFORD MA	08/02/11 12:05
L1111739-02	MW-28	NEW BEDFORD MA	08/02/11 14:00
L1111739-03	MW-27R	NEW BEDFORD MA	08/02/11 14:30
L1111739-04	DUP	NEW BEDFORD MA	08/02/11 13:05

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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: NBHS MECH ROOM **Lab Number:** L1111739
Project Number: 115058 **Report Date:** 08/10/11

Case Narrative

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

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

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

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

MCP Related Narratives

Volatile Organics

L1111739-01 through -04 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1111739-01, -03 and -04: All analytes did not achieve the requested CAM reporting limits.

L1111739-02: All analytes, with the exception of trans-1,3-Dichloropropene, cis-1,3-Dichloropropene, Benzene and Hexachlorobutadiene did not achieve the requested CAM reporting limits.

In reference to question H:

The WG483615-1 LCS recovery, associated with L1111739-01 through -04, is below the acceptance criteria for Bromomethane (55%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to

Project Name: NBHS MECH ROOM **Lab Number:** L1111739
Project Number: 115058 **Report Date:** 08/10/11

Case Narrative (continued)

have a potentially low bias for this compound. In addition, the associated WG483615-1/-2 LCS/LCSD RPD is above the acceptance criteria for Bromomethane (25%).

The initial calibration, associated with L1111739-01 through -04, did not meet the method required minimum response factors on the lowest calibration standards for 2-Butanone (0.09135), 1,4-Dioxane (0.00186) and 4-Methyl-2-Pentanone (0.05855), as well as the average response factors for 2-Butanone, 1,4-Dioxane and 4-Methyl-2-Pentanone.

The continuing calibration standard, associated with L1111739-01 through -04, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

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

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative Date: 08/10/11

ORGANICS

VOLATILES

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID:	L1111739-01	D	Date Collected:	08/02/11 12:05
Client ID:	MW-32		Date Received:	08/03/11
Sample Location:	NEW BEDFORD MA		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/09/11 11:07			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	50	--	25
1,1-Dichloroethane	ND		ug/l	25	--	25
Chloroform	ND		ug/l	25	--	25
Carbon tetrachloride	ND		ug/l	25	--	25
1,2-Dichloropropane	ND		ug/l	25	--	25
Dibromochloromethane	ND		ug/l	25	--	25
1,1,2-Trichloroethane	ND		ug/l	25	--	25
Tetrachloroethene	ND		ug/l	25	--	25
Chlorobenzene	ND		ug/l	25	--	25
Trichlorofluoromethane	ND		ug/l	50	--	25
1,2-Dichloroethane	ND		ug/l	25	--	25
1,1,1-Trichloroethane	ND		ug/l	25	--	25
Bromodichloromethane	ND		ug/l	25	--	25
trans-1,3-Dichloropropene	ND		ug/l	12	--	25
cis-1,3-Dichloropropene	ND		ug/l	12	--	25
1,1-Dichloropropene	ND		ug/l	50	--	25
Bromoform	ND		ug/l	50	--	25
1,1,2,2-Tetrachloroethane	ND		ug/l	25	--	25
Benzene	ND		ug/l	12	--	25
Toluene	ND		ug/l	25	--	25
Ethylbenzene	ND		ug/l	25	--	25
Chloromethane	ND		ug/l	50	--	25
Bromomethane	ND		ug/l	50	--	25
Vinyl chloride	ND		ug/l	25	--	25
Chloroethane	ND		ug/l	50	--	25
1,1-Dichloroethene	ND		ug/l	25	--	25
trans-1,2-Dichloroethene	27		ug/l	25	--	25
Trichloroethene	2500		ug/l	25	--	25
1,2-Dichlorobenzene	ND		ug/l	25	--	25
1,3-Dichlorobenzene	ND		ug/l	25	--	25
1,4-Dichlorobenzene	ND		ug/l	25	--	25

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-01 D Date Collected: 08/02/11 12:05

Client ID: MW-32 Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	50	--	25
p/m-Xylene	ND		ug/l	50	--	25
o-Xylene	ND		ug/l	25	--	25
cis-1,2-Dichloroethene	220		ug/l	25	--	25
Dibromomethane	ND		ug/l	50	--	25
1,2,3-Trichloropropane	ND		ug/l	50	--	25
Styrene	ND		ug/l	25	--	25
Dichlorodifluoromethane	ND		ug/l	50	--	25
Acetone	ND		ug/l	120	--	25
Carbon disulfide	ND		ug/l	50	--	25
2-Butanone	ND		ug/l	120	--	25
4-Methyl-2-pentanone	ND		ug/l	120	--	25
2-Hexanone	ND		ug/l	120	--	25
Bromochloromethane	ND		ug/l	50	--	25
Tetrahydrofuran	ND		ug/l	120	--	25
2,2-Dichloropropane	ND		ug/l	50	--	25
1,2-Dibromoethane	ND		ug/l	50	--	25
1,3-Dichloropropane	ND		ug/l	50	--	25
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	25
Bromobenzene	ND		ug/l	50	--	25
n-Butylbenzene	ND		ug/l	50	--	25
sec-Butylbenzene	ND		ug/l	50	--	25
tert-Butylbenzene	ND		ug/l	50	--	25
o-Chlorotoluene	ND		ug/l	50	--	25
p-Chlorotoluene	ND		ug/l	50	--	25
1,2-Dibromo-3-chloropropane	ND		ug/l	50	--	25
Hexachlorobutadiene	ND		ug/l	15	--	25
Isopropylbenzene	ND		ug/l	50	--	25
p-Isopropyltoluene	ND		ug/l	50	--	25
Naphthalene	ND		ug/l	50	--	25
n-Propylbenzene	ND		ug/l	50	--	25
1,2,3-Trichlorobenzene	ND		ug/l	50	--	25
1,2,4-Trichlorobenzene	ND		ug/l	50	--	25
1,3,5-Trimethylbenzene	ND		ug/l	50	--	25
1,2,4-Trimethylbenzene	ND		ug/l	50	--	25
Ethyl ether	ND		ug/l	50	--	25
Isopropyl Ether	ND		ug/l	50	--	25
Ethyl-Tert-Butyl-Ether	ND		ug/l	50	--	25
Tertiary-Amyl Methyl Ether	ND		ug/l	50	--	25

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-01 D Date Collected: 08/02/11 12:05

Client ID: MW-32 Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	6200	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	99		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID:	L1111739-02	D	Date Collected:	08/02/11 14:00
Client ID:	MW-28		Date Received:	08/03/11
Sample Location:	NEW BEDFORD MA		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/09/11 11:43			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	2.5
1,1-Dichloroethane	ND		ug/l	2.5	--	2.5
Chloroform	ND		ug/l	2.5	--	2.5
Carbon tetrachloride	ND		ug/l	2.5	--	2.5
1,2-Dichloropropane	ND		ug/l	2.5	--	2.5
Dibromochloromethane	ND		ug/l	2.5	--	2.5
1,1,2-Trichloroethane	ND		ug/l	2.5	--	2.5
Tetrachloroethene	ND		ug/l	2.5	--	2.5
Chlorobenzene	39		ug/l	2.5	--	2.5
Trichlorofluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dichloroethane	ND		ug/l	2.5	--	2.5
1,1,1-Trichloroethane	ND		ug/l	2.5	--	2.5
Bromodichloromethane	ND		ug/l	2.5	--	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
1,1-Dichloropropene	ND		ug/l	5.0	--	2.5
Bromoform	ND		ug/l	5.0	--	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Benzene	ND		ug/l	1.2	--	2.5
Toluene	ND		ug/l	2.5	--	2.5
Ethylbenzene	ND		ug/l	2.5	--	2.5
Chloromethane	ND		ug/l	5.0	--	2.5
Bromomethane	ND		ug/l	5.0	--	2.5
Vinyl chloride	42		ug/l	2.5	--	2.5
Chloroethane	ND		ug/l	5.0	--	2.5
1,1-Dichloroethene	ND		ug/l	2.5	--	2.5
trans-1,2-Dichloroethene	42		ug/l	2.5	--	2.5
Trichloroethene	52		ug/l	2.5	--	2.5
1,2-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,3-Dichlorobenzene	6.0		ug/l	2.5	--	2.5
1,4-Dichlorobenzene	23		ug/l	2.5	--	2.5

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-02 D Date Collected: 08/02/11 14:00

Client ID: MW-28 Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	5.0	--	2.5
p/m-Xylene	ND		ug/l	5.0	--	2.5
o-Xylene	ND		ug/l	2.5	--	2.5
cis-1,2-Dichloroethene	140		ug/l	2.5	--	2.5
Dibromomethane	ND		ug/l	5.0	--	2.5
1,2,3-Trichloropropane	ND		ug/l	5.0	--	2.5
Styrene	ND		ug/l	2.5	--	2.5
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
Acetone	ND		ug/l	12	--	2.5
Carbon disulfide	ND		ug/l	5.0	--	2.5
2-Butanone	ND		ug/l	12	--	2.5
4-Methyl-2-pentanone	ND		ug/l	12	--	2.5
2-Hexanone	ND		ug/l	12	--	2.5
Bromochloromethane	ND		ug/l	5.0	--	2.5
Tetrahydrofuran	ND		ug/l	12	--	2.5
2,2-Dichloropropane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Bromobenzene	ND		ug/l	5.0	--	2.5
n-Butylbenzene	ND		ug/l	5.0	--	2.5
sec-Butylbenzene	ND		ug/l	5.0	--	2.5
tert-Butylbenzene	ND		ug/l	5.0	--	2.5
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
Isopropylbenzene	ND		ug/l	5.0	--	2.5
p-Isopropyltoluene	ND		ug/l	5.0	--	2.5
Naphthalene	ND		ug/l	5.0	--	2.5
n-Propylbenzene	ND		ug/l	5.0	--	2.5
1,2,3-Trichlorobenzene	ND		ug/l	5.0	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5
1,3,5-Trimethylbenzene	ND		ug/l	5.0	--	2.5
1,2,4-Trimethylbenzene	ND		ug/l	5.0	--	2.5
Ethyl ether	ND		ug/l	5.0	--	2.5
Isopropyl Ether	ND		ug/l	5.0	--	2.5
Ethyl-Tert-Butyl-Ether	ND		ug/l	5.0	--	2.5
Tertiary-Amyl Methyl Ether	ND		ug/l	5.0	--	2.5

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-02 D Date Collected: 08/02/11 14:00

Client ID: MW-28 Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	620	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID:	L1111739-03	D	Date Collected:	08/02/11 14:30
Client ID:	MW-27R		Date Received:	08/03/11
Sample Location:	NEW BEDFORD MA		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/09/11 12:17			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	500	--	250
1,1-Dichloroethane	ND		ug/l	250	--	250
Chloroform	ND		ug/l	250	--	250
Carbon tetrachloride	ND		ug/l	250	--	250
1,2-Dichloropropane	ND		ug/l	250	--	250
Dibromochloromethane	ND		ug/l	250	--	250
1,1,2-Trichloroethane	ND		ug/l	250	--	250
Tetrachloroethene	ND		ug/l	250	--	250
Chlorobenzene	ND		ug/l	250	--	250
Trichlorofluoromethane	ND		ug/l	500	--	250
1,2-Dichloroethane	ND		ug/l	250	--	250
1,1,1-Trichloroethane	ND		ug/l	250	--	250
Bromodichloromethane	ND		ug/l	250	--	250
trans-1,3-Dichloropropene	ND		ug/l	120	--	250
cis-1,3-Dichloropropene	ND		ug/l	120	--	250
1,1-Dichloropropene	ND		ug/l	500	--	250
Bromoform	ND		ug/l	500	--	250
1,1,2,2-Tetrachloroethane	ND		ug/l	250	--	250
Benzene	ND		ug/l	120	--	250
Toluene	ND		ug/l	250	--	250
Ethylbenzene	ND		ug/l	250	--	250
Chloromethane	ND		ug/l	500	--	250
Bromomethane	ND		ug/l	500	--	250
Vinyl chloride	510		ug/l	250	--	250
Chloroethane	ND		ug/l	500	--	250
1,1-Dichloroethene	ND		ug/l	250	--	250
trans-1,2-Dichloroethene	940		ug/l	250	--	250
Trichloroethene	23000		ug/l	250	--	250
1,2-Dichlorobenzene	ND		ug/l	250	--	250
1,3-Dichlorobenzene	ND		ug/l	250	--	250
1,4-Dichlorobenzene	ND		ug/l	250	--	250

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-03 D Date Collected: 08/02/11 14:30

Client ID: MW-27R Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	500	--	250
p/m-Xylene	ND		ug/l	500	--	250
o-Xylene	ND		ug/l	250	--	250
cis-1,2-Dichloroethene	5400		ug/l	250	--	250
Dibromomethane	ND		ug/l	500	--	250
1,2,3-Trichloropropane	ND		ug/l	500	--	250
Styrene	ND		ug/l	250	--	250
Dichlorodifluoromethane	ND		ug/l	500	--	250
Acetone	ND		ug/l	1200	--	250
Carbon disulfide	ND		ug/l	500	--	250
2-Butanone	ND		ug/l	1200	--	250
4-Methyl-2-pentanone	ND		ug/l	1200	--	250
2-Hexanone	ND		ug/l	1200	--	250
Bromochloromethane	ND		ug/l	500	--	250
Tetrahydrofuran	ND		ug/l	1200	--	250
2,2-Dichloropropane	ND		ug/l	500	--	250
1,2-Dibromoethane	ND		ug/l	500	--	250
1,3-Dichloropropane	ND		ug/l	500	--	250
1,1,1,2-Tetrachloroethane	ND		ug/l	250	--	250
Bromobenzene	ND		ug/l	500	--	250
n-Butylbenzene	ND		ug/l	500	--	250
sec-Butylbenzene	ND		ug/l	500	--	250
tert-Butylbenzene	ND		ug/l	500	--	250
o-Chlorotoluene	ND		ug/l	500	--	250
p-Chlorotoluene	ND		ug/l	500	--	250
1,2-Dibromo-3-chloropropane	ND		ug/l	500	--	250
Hexachlorobutadiene	ND		ug/l	150	--	250
Isopropylbenzene	ND		ug/l	500	--	250
p-Isopropyltoluene	ND		ug/l	500	--	250
Naphthalene	ND		ug/l	500	--	250
n-Propylbenzene	ND		ug/l	500	--	250
1,2,3-Trichlorobenzene	ND		ug/l	500	--	250
1,2,4-Trichlorobenzene	ND		ug/l	500	--	250
1,3,5-Trimethylbenzene	ND		ug/l	500	--	250
1,2,4-Trimethylbenzene	ND		ug/l	500	--	250
Ethyl ether	ND		ug/l	500	--	250
Isopropyl Ether	ND		ug/l	500	--	250
Ethyl-Tert-Butyl-Ether	ND		ug/l	500	--	250
Tertiary-Amyl Methyl Ether	ND		ug/l	500	--	250

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-03 D Date Collected: 08/02/11 14:30

Client ID: MW-27R Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	62000	--	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID:	L1111739-04	D	Date Collected:	08/02/11 13:05
Client ID:	DUP		Date Received:	08/03/11
Sample Location:	NEW BEDFORD MA		Field Prep:	Not Specified
Matrix:	Water			
Analytical Method:	97,8260B			
Analytical Date:	08/09/11 12:52			
Analyst:	PD			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	100	--	50
1,1-Dichloroethane	ND		ug/l	50	--	50
Chloroform	ND		ug/l	50	--	50
Carbon tetrachloride	ND		ug/l	50	--	50
1,2-Dichloropropane	ND		ug/l	50	--	50
Dibromochloromethane	ND		ug/l	50	--	50
1,1,2-Trichloroethane	ND		ug/l	50	--	50
Tetrachloroethene	ND		ug/l	50	--	50
Chlorobenzene	ND		ug/l	50	--	50
Trichlorofluoromethane	ND		ug/l	100	--	50
1,2-Dichloroethane	ND		ug/l	50	--	50
1,1,1-Trichloroethane	ND		ug/l	50	--	50
Bromodichloromethane	ND		ug/l	50	--	50
trans-1,3-Dichloropropene	ND		ug/l	25	--	50
cis-1,3-Dichloropropene	ND		ug/l	25	--	50
1,1-Dichloropropene	ND		ug/l	100	--	50
Bromoform	ND		ug/l	100	--	50
1,1,2,2-Tetrachloroethane	ND		ug/l	50	--	50
Benzene	ND		ug/l	25	--	50
Toluene	ND		ug/l	50	--	50
Ethylbenzene	ND		ug/l	50	--	50
Chloromethane	ND		ug/l	100	--	50
Bromomethane	ND		ug/l	100	--	50
Vinyl chloride	ND		ug/l	50	--	50
Chloroethane	ND		ug/l	100	--	50
1,1-Dichloroethene	ND		ug/l	50	--	50
trans-1,2-Dichloroethene	ND		ug/l	50	--	50
Trichloroethene	2000		ug/l	50	--	50
1,2-Dichlorobenzene	ND		ug/l	50	--	50
1,3-Dichlorobenzene	ND		ug/l	50	--	50
1,4-Dichlorobenzene	ND		ug/l	50	--	50

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-04 D Date Collected: 08/02/11 13:05

Client ID: DUP Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	100	--	50
p/m-Xylene	ND		ug/l	100	--	50
o-Xylene	ND		ug/l	50	--	50
cis-1,2-Dichloroethene	180		ug/l	50	--	50
Dibromomethane	ND		ug/l	100	--	50
1,2,3-Trichloropropane	ND		ug/l	100	--	50
Styrene	ND		ug/l	50	--	50
Dichlorodifluoromethane	ND		ug/l	100	--	50
Acetone	ND		ug/l	250	--	50
Carbon disulfide	ND		ug/l	100	--	50
2-Butanone	ND		ug/l	250	--	50
4-Methyl-2-pentanone	ND		ug/l	250	--	50
2-Hexanone	ND		ug/l	250	--	50
Bromochloromethane	ND		ug/l	100	--	50
Tetrahydrofuran	ND		ug/l	250	--	50
2,2-Dichloropropane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50
Bromobenzene	ND		ug/l	100	--	50
n-Butylbenzene	ND		ug/l	100	--	50
sec-Butylbenzene	ND		ug/l	100	--	50
tert-Butylbenzene	ND		ug/l	100	--	50
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
1,2-Dibromo-3-chloropropane	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
Isopropylbenzene	ND		ug/l	100	--	50
p-Isopropyltoluene	ND		ug/l	100	--	50
Naphthalene	ND		ug/l	100	--	50
n-Propylbenzene	ND		ug/l	100	--	50
1,2,3-Trichlorobenzene	ND		ug/l	100	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50
1,3,5-Trimethylbenzene	ND		ug/l	100	--	50
1,2,4-Trimethylbenzene	ND		ug/l	100	--	50
Ethyl ether	ND		ug/l	100	--	50
Isopropyl Ether	ND		ug/l	100	--	50
Ethyl-Tert-Butyl-Ether	ND		ug/l	100	--	50
Tertiary-Amyl Methyl Ether	ND		ug/l	100	--	50

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

SAMPLE RESULTS

Lab ID: L1111739-04 D Date Collected: 08/02/11 13:05

Client ID: DUP Date Received: 08/03/11

Sample Location: NEW BEDFORD MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	12000	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	97		70-130

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/09/11 09:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG483615-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/09/11 09:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG483615-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS MECH ROOM **Lab Number:** L1111739

Project Number: 115058 **Report Date:** 08/10/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/09/11 09:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG483615-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111739
Report Date: 08/10/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG483615-1 WG483615-2								
Methylene chloride	92		95		70-130	3		20
1,1-Dichloroethane	100		106		70-130	6		20
Chloroform	97		102		70-130	5		20
Carbon tetrachloride	80		95		70-130	17		20
1,2-Dichloropropane	101		105		70-130	4		20
Dibromochloromethane	82		98		70-130	18		20
1,1,2-Trichloroethane	96		105		70-130	9		20
Tetrachloroethene	99		103		70-130	4		20
Chlorobenzene	100		102		70-130	2		20
Trichlorofluoromethane	101		108		70-130	7		20
1,2-Dichloroethane	96		101		70-130	5		20
1,1,1-Trichloroethane	84		96		70-130	13		20
Bromodichloromethane	83		98		70-130	17		20
trans-1,3-Dichloropropene	84		98		70-130	15		20
cis-1,3-Dichloropropene	86		98		70-130	13		20
1,1-Dichloropropene	99		102		70-130	3		20
Bromoform	93		107		70-130	14		20
1,1,2,2-Tetrachloroethane	104		115		70-130	10		20
Benzene	100		103		70-130	3		20
Toluene	94		100		70-130	6		20
Ethylbenzene	104		107		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111739
Report Date: 08/10/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG483615-1 WG483615-2								
Chloromethane	84		83		70-130	1		20
Bromomethane	**55**	Q	71		70-130	**25**	Q	20
Vinyl chloride	95		100		70-130	5		20
Chloroethane	108		107		70-130	1		20
1,1-Dichloroethene	99		100		70-130	1		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	104		109		70-130	5		20
1,3-Dichlorobenzene	107		110		70-130	3		20
1,4-Dichlorobenzene	105		109		70-130	4		20
Methyl tert butyl ether	86		95		70-130	10		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	104		106		70-130	2		20
cis-1,2-Dichloroethene	99		102		70-130	3		20
Dibromomethane	104		110		70-130	6		20
1,2,3-Trichloropropane	105		116		70-130	10		20
Styrene	109		111		70-130	2		20
Dichlorodifluoromethane	106		103		70-130	3		20
Acetone	93		95		70-130	2		20
Carbon disulfide	82		84		70-130	2		20
2-Butanone	94		99		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111739
Report Date: 08/10/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG483615-1 WG483615-2								
4-Methyl-2-pentanone	104		106		70-130	2		20
2-Hexanone	100		102		70-130	2		20
Bromochloromethane	97		102		70-130	5		20
Tetrahydrofuran	82		92		70-130	11		20
2,2-Dichloropropane	96		109		70-130	13		20
1,2-Dibromoethane	90		100		70-130	11		20
1,3-Dichloropropane	97		106		70-130	9		20
1,1,1,2-Tetrachloroethane	82		96		70-130	16		20
Bromobenzene	106		111		70-130	5		20
n-Butylbenzene	99		97		70-130	2		20
sec-Butylbenzene	111		110		70-130	1		20
tert-Butylbenzene	110		108		70-130	2		20
o-Chlorotoluene	107		109		70-130	2		20
p-Chlorotoluene	107		109		70-130	2		20
1,2-Dibromo-3-chloropropane	97		109		70-130	12		20
Hexachlorobutadiene	106		101		70-130	5		20
Isopropylbenzene	108		109		70-130	1		20
p-Isopropyltoluene	114		114		70-130	0		20
Naphthalene	90		101		70-130	12		20
n-Propylbenzene	112		113		70-130	1		20
1,2,3-Trichlorobenzene	92		100		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH ROOM
Project Number: 115058
Lab Number: L1111739
Report Date: 08/10/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG483615-1 WG483615-2								
1,2,4-Trichlorobenzene	99		104		70-130	5		20
1,3,5-Trimethylbenzene	108		110		70-130	2		20
1,2,4-Trimethylbenzene	112		114		70-130	2		20
Ethyl ether	94		98		70-130	4		20
Isopropyl Ether	94		99		70-130	5		20
Ethyl-Tert-Butyl-Ether	84		96		70-130	13		20
Tertiary-Amyl Methyl Ether	92		101		70-130	9		20
1,4-Dioxane	98		105		70-130	7		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	87		95		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	95		98		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	98		103		70-130

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111739
Report Date: 08/10/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111739-01A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-01B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-02A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-02B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-03A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-03B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-04A	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)
L1111739-04B	Vial HCl preserved	A	N/A	2.2	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS MECH ROOM	**Lab Number:**	L1111739
Project Number:	115058	**Report Date:**	08/10/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: NBHS MECH ROOM
Project Number: 115058
Lab Number: L1111739
Report Date: 08/10/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS MECH ROOM **Lab Number:** L1111739
Project Number: 115058 **Report Date:** 08/10/11

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 08·03·11

ALPHA Job #: L1111739

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC.
Address: 650 SUFFOLK ST.
LOWELL MA
Phone: 978-970-5600
Fax:
Email: DSULLIVAN ALEONARD@TRCSOLUTIONS.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH ROOM
Project Location: NEW BEDFORD MA
Project #: 115058
Project Manager:
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5-DAY 08/17/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #: C115058

Regulatory Requirements/Report Limits

State /Fed Program: MA Criteria: MCP GW-2

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs BY 8260	Sample Specific Comments	Total # Bottles
11739 01	MW-32	8/2	12:05	GW	JF	✓		
02	MW-28	8/2	14:00	GW	JF	✓		
03	MW-27R	8/2	14:30	GW	JF	✓		
04	DUP.	8/2	13:05	GW	JF	✓		

SAMPLE HANDLING
Filtration: ☐ Done ☑ Not needed ☐ Lab to do
Preservation: ☐ Lab to do
(Please specify below)

Container Type	V
Preservative	B

Relinquished By:	Date/Time	Received By:	Date/Time
James Fiore	8/3/11 1625	[illegible]	8/3/11 1625
[illegible]	8/3/11 1630	P. Gillett	8/3/11 1640
P. Gillett	8/3/11 1715	[illegible]	8/3/11 1715

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Serial_No:08101113:11

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111739

Instrument ID: Gonzo.i Calibration Date: 09-AUG-2011 Time: 07:43

Lab File ID: 0809A01 Init. Calib. Date(s): 05-AUG-2 05-AUG-2

Sample No: wg483-1,31,10 Init. Calib. Times : 10:54 14:18

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.28348	.30213	.1	-7	20	
chloromethane	.3019	.25357	.1	16	20	
vinyl chloride	.20135	.19053	.1	5	20	
bromomethane	.14639	.08041	.1	45	20	F
chloroethane	.13252	.14248	.1	-8	20	
trichlorofluoromethane	.40048	.40429	.1	-1	20	
ethyl ether	.09565	.08942	.05	7	20	
Freon 113	.22674	.19795	.1	13	20	
acetone	100	93.344	.1	7	20	
1,1,-dichloroethene	.22457	.22184	.1	1	20	
methylene chloride	.31125	.28774	.1	8	20	
carbon disulfide	.71356	.58467	.1	18	20	
methyl tert butyl ether	.55027	.47421	.1	14	20	
trans-1,2-dichloroethene	.25235	.24806	.1	2	20	
Diisopropyl Ether	.85737	.80667	.05	6	20	
1,1-dichloroethane	.45922	.46181	.1	-1	20	
Ethyl-Tert-Butyl-Ether	.63453	.53498	.05	16	20	
2-butanone	.08522	.08054	.1	5	20	F
2,2-dichloropropane	100	95.951	.05	4	20	
cis-1,2-dichloroethene	.28388	.28206	.1	1	20	
chloroform	.49266	.47959	.2	3	20	
bromochloromethane	.1276	.12419	.05	3	20	
tetrahydrofuran	.05283	.0432	.05	18	20	
1,1,1-trichloroethane	100	83.645	.1	16	20	
1,1-dichloropropene	.35999	.35675	.05	1	20	
carbontetrachloride	100	80.208	.1	20	20	
Tertiary-Amyl Methyl Ether	.52696	.48747	.05	7	20	
1,2-dichloroethane	.3743	.35753	.1	4	20	
benzene	1.0681	1.0660	.5	0	20	
trichloroethene	.27542	.27491	.2	0	20	
1,2-dichloropropane	.25271	.25474	.1	-1	20	
bromodichloromethane	100	83.373	.2	17	20	
1,4-dioxane	.00185	.00181	.05	2	20	F
dibromomethane	.1455	.15129	.05	-4	20	
4-methyl-2-pentanone	.07071	.0734	.1	-4	20	F
cis-1,3-dichloropropene	100	85.578	.2	14	20	
toluene	.85591	.80541	.4	6	20	
trans-1,3-dichloropropene	100	83.904	.1	16	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111739

Instrument ID: Gonzo.i Calibration Date: 09-AUG-2011 Time: 07:43

Lab File ID: 0809A01 Init. Calib. Date(s): 05-AUG-2 05-AUG-2

Sample No: wg483-1,31,10 Init. Calib. Times : 10:54 14:18

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.21387	.20647	.1	3	20
2-hexanone	.14717	.14741	.1	0	20
1,3-dichloropropane	.43857	.42355	.05	3	20
tetrachloroethene	.39043	.38564	.2	1	20
chlorodibromomethane	100	82.179	.1	18	20
1,2-dibromoethane	100	90.275	.1	10	20
chlorobenzene	1.0146	1.0126	.5	0	20
1,1,1,2-tetrachloroethane	100	82.405	.05	18	20
ethyl benzene	1.6692	1.7371	.1	-4	20
p/m xylene	.67181	.71184	.1	-6	20
o xylene	.67052	.69938	.3	-4	20
styrene	1.0856	1.1812	.3	-9	20
isopropylbenzene	1.6449	1.7827	.1	-8	20
bromoform	100	93.288	.1	7	20
1,1,2,2,-tetrachloroethane	.53656	.55959	.3	-4	20
1,2,3-trichloropropane	.43388	.45518	.05	-5	20
n-propylbenzene	3.7670	4.2132	.05	-12	20
bromobenzene	.88026	.93676	.05	-6	20
1,3,5-trimethybenzene	2.8049	3.0390	.05	-8	20
2-chlorotoluene	2.6584	2.8457	.05	-7	20
4-chorotoluene	2.4451	2.6230	.05	-7	20
tert-butylbenzene	2.2075	2.4238	.05	-10	20
1,2,4-trimethylbenzene	2.7135	3.0311	.05	-12	20
sec-butylbenzene	3.2665	3.6200	.05	-11	20
p-isopropyltoluene	2.4774	2.8379	.05	-15	20
1,3-dichlorobenzene	1.5299	1.6342	.6	-7	20
1,4-dichlorobenzene	1.5473	1.6191	.5	-5	20
n-butylbenzene	100	98.550	.05	1	20
1,2-dichlorobenzene	1.3653	1.4176	.4	-4	20
1,2-dibromo-3-chloropropane	100	97.063	.05	3	20
1,2,4-trichlorobenzene	100	98.763	.2	1	20
hexachlorobutadiene	.41721	.44098	.05	-6	20
naphthalene	100	90.035	.05	10	20
1,2,3-trichlorobenzene	.46811	.43047	.05	8	20
dibromofluoromethane	.24856	.24452	.05	2	30
1,2-dichloroethane-d4	.26904	.26301	.05	2	30
toluene-d8	1.1455	1.0852	.05	5	30

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1111739

Instrument ID: Gonzo.i Calibration Date: 09-AUG-2011 Time: 07:43

Lab File ID: 0809A01 Init. Calib. Date(s): 05-AUG-2 05-AUG-2

Sample No: wg483-1,31,10 Init. Calib. Times : 10:54 14:18

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D
4-bromofluorobenzene	.95542	.96838	.05	-1	30

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1111721
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS MECH
Project Number:	115058
Report Date:	08/05/11

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Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111721
Report Date: 08/05/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111721-01	MW-32	NEW BEDFORD, MA	08/02/11 17:30
L1111721-02	MW-27R	NEW BEDFORD, MA	08/02/11 18:00
L1111721-03	VAC NAPL	NEW BEDFORD, MA	08/03/11 12:00
L1111721-04	VAC EFF	NEW BEDFORD, MA	08/03/11 12:30

Project Name: NBHS MECH **Lab Number:** L1111721
Project Number: 115058 **Report Date:** 08/05/11

Case Narrative

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

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

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

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

Report Submission

This report contains the results for the PCB analysis. The results for all other analyses will be issued under separate cover.

PCB

L1111721-02, -03, -04, and the associated WG482735-4 Laboratory Duplicate have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.
The surrogate recoveries for L1111721-02, -03, -04 and the associated WG482735-4 Laboratory Duplicate are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.
The WG482735-3 MS, associated with L1111721-03, was not analyzed because the dilution required by the

Project Name:	NBHS MECH	**Lab Number:**	L1111721
Project Number:	115058	**Report Date:**	08/05/11

Case Narrative (continued)

elevated concentrations of target compounds present in the sample to be utilized for the MS would have caused the spike compounds to be diluted below the range of calibration.

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

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative

Date: 08/05/11

ORGANICS

PCBS

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-01	Date Collected:	08/02/11 17:30
Client ID:	MW-32	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	08/03/11 22:43
Analytical Date:	08/04/11 21:46	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/04/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1
Aroclor 1262	ND		ug/l	0.250	--	1
Aroclor 1268	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	63		30-150

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-02	D	Date Collected:	08/02/11 18:00
Client ID:	MW-27R		Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8082		Extraction Date:	08/03/11 22:43
Analytical Date:	08/05/11 11:19		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/04/11
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	12.5	--	50
Aroclor 1221	ND		ug/l	12.5	--	50
Aroclor 1232	ND		ug/l	12.5	--	50
Aroclor 1242	ND		ug/l	12.5	--	50
Aroclor 1248	ND		ug/l	12.5	--	50
Aroclor 1260	ND		ug/l	12.5	--	50
Aroclor 1262	ND		ug/l	12.5	--	50
Aroclor 1268	ND		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-02	D	Date Collected:	08/02/11 18:00
Client ID:	MW-27R		Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8082		Extraction Date:	08/03/11 22:43
Analytical Date:	08/05/11 11:19		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/04/11
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	161		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-03 D	Date Collected:	08/03/11 12:00
Client ID:	VAC NAPL	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Oil	Extraction Method:	EPA 3580A
Analytical Method:	1,8082	Extraction Date:	08/04/11 01:48
Analytical Date:	08/05/11 10:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		mg/kg	29.6	--	10
Aroclor 1221	ND		mg/kg	29.6	--	10
Aroclor 1232	ND		mg/kg	29.6	--	10
Aroclor 1242	ND		mg/kg	29.6	--	10
Aroclor 1248	ND		mg/kg	19.7	--	10
Aroclor 1260	ND		mg/kg	19.7	--	10
Aroclor 1262	ND		mg/kg	9.87	--	10
Aroclor 1268	ND		mg/kg	9.87	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-03 D	Date Collected:	08/03/11 12:00
Client ID:	VAC NAPL	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Oil	Extraction Method:	EPA 3580A
Analytical Method:	1,8082	Extraction Date:	08/04/11 01:48
Analytical Date:	08/05/11 10:32	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/04/11
Percent Solids:	Results reported on an 'AS RECEIVED' basis.	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	179		mg/kg	29.6	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-04	D	Date Collected:	08/03/11 12:30
Client ID:	VAC EFF		Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8082		Extraction Date:	08/03/11 22:43
Analytical Date:	08/05/11 11:35		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/04/11
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	12.5	--	50
Aroclor 1221	ND		ug/l	12.5	--	50
Aroclor 1232	ND		ug/l	12.5	--	50
Aroclor 1242	ND		ug/l	12.5	--	50
Aroclor 1248	ND		ug/l	12.5	--	50
Aroclor 1260	ND		ug/l	12.5	--	50
Aroclor 1262	ND		ug/l	12.5	--	50
Aroclor 1268	ND		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

SAMPLE RESULTS

Lab ID:	L1111721-04	D	Date Collected:	08/03/11 12:30
Client ID:	VAC EFF		Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8082		Extraction Date:	08/03/11 22:43
Analytical Date:	08/05/11 11:35		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/04/11
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/04/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	279		ug/l	12.5	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH

Project Number: 115058

Lab Number: L1111721

Report Date: 08/05/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/04/11 22:34
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 08/03/11 22:43
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/04/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/04/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01-02,04 Batch: WG482720-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--
Aroclor 1262	ND		ug/l	0.250	--
Aroclor 1268	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	82		30-150
Decachlorobiphenyl	66		30-150

Project Name: NBHS MECH

Project Number: 115058

Lab Number: L1111721

Report Date: 08/05/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/04/11 19:06
Analyst: KB

Extraction Method: EPA 3580A
Extraction Date: 08/04/11 01:48
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/04/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/04/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 03 Batch: WG482735-1					
Aroclor 1016	ND		mg/kg	3.00	--
Aroclor 1221	ND		mg/kg	3.00	--
Aroclor 1232	ND		mg/kg	3.00	--
Aroclor 1242	ND		mg/kg	3.00	--
Aroclor 1248	ND		mg/kg	2.00	--
Aroclor 1254	ND		mg/kg	3.00	--
Aroclor 1260	ND		mg/kg	2.00	--
Aroclor 1262	ND		mg/kg	0.999	--
Aroclor 1268	ND		mg/kg	0.999	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	59		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111721
Report Date: 08/05/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01-02,04 Batch: WG482720-2 WG482720-3								
Aroclor 1016	96		96		40-140	0		50
Aroclor 1260	79		82		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		73		30-150
Decachlorobiphenyl	64		64		30-150
2,4,5,6-Tetrachloro-m-xylene	84		82		30-150
Decachlorobiphenyl	66		66		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 03 Batch: WG482735-2								
Aroclor 1016	60		-		40-140	-		50
Aroclor 1260	50		-		40-140	-		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62				30-150
Decachlorobiphenyl	57				30-150
2,4,5,6-Tetrachloro-m-xylene	68				30-150
Decachlorobiphenyl	58				30-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111721
Report Date: 08/05/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 03 QC Batch ID: WG482735-4 QC Sample: L1111721-03 Client ID: VAC NAPL						
Aroclor 1016	ND	ND	mg/kg	NC		50
Aroclor 1221	ND	ND	mg/kg	NC		50
Aroclor 1232	ND	ND	mg/kg	NC		50
Aroclor 1242	ND	ND	mg/kg	NC		50
Aroclor 1248	ND	ND	mg/kg	NC		50
Aroclor 1260	ND	ND	mg/kg	NC		50
Aroclor 1262	ND	ND	mg/kg	NC		50
Aroclor 1268	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	**0**	Q	30-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111721
Report Date: 08/05/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 03 QC Batch ID: WG482735-4 QC Sample: L1111721-03 Client ID: VAC NAPL					
Aroclor 1254	179	120	mg/kg	39	50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	**0**	Q	30-150

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111721
Report Date: 08/05/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111721-01A	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	PCB-8082(7)
L1111721-01B	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	PCB-8082(7)
L1111721-02A	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	PCB-8082(7)
L1111721-02B	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	PCB-8082(7)
L1111721-03A	Vial unpreserved	A	N/A	2.2	Y	Absent	PCB-8082LL(14)
L1111721-04A	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	PCB-8082(7)
L1111721-04B	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	PCB-8082(7)

*Values in parentheses indicate holding time in days

Project Name: NBHS MECH **Lab Number:** L1111721

Project Number: 115058 **Report Date:** 08/05/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name:	NBHS MECH	**Lab Number:**	L1111721
Project Number:	115058	**Report Date:**	08/05/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS MECH **Lab Number:** L1111721
Project Number: 115058 **Report Date:** 08/05/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 08-03-11

ALPHA Job #: L1111721

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: TRC

Address: 650 SUFFOLK ST.
LOWELL MA

Phone: 978-970-5600

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH

Project Location: NEW BEDFORD MA.

Project #: 115058 TEI PCB.

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!) ✓ * PCBs ONLY 48 HR.

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program EPA Criteria TSCA.

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs by 8082 *	8100M TPH DRO FINGERPRINT	Sample Specific Comments	Total # Bottles
1721-01	MW-32	8/2	17:30	GW	JF	✓	✓	RUSH PCBs	
02	MW-27R	8/2	18:00	GW	JF	✓	✓	" "	
03	VAC NAPL	8/3	12:00	O	JF	✓	✓	" "	
04	VAC EFF	8/3	12:30	E	JF	✓	✓	" "	
Container Type						A	A		
Preservative						A	A		

SAMPLE HANDLING

Filtration
☐ Done
☑ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
Mark C. Finn	8/3/11 1625	[illegible]	8/3/11 1625
[illegible]	8/3/11 1630	[illegible]	8/3/11 1640
[illegible]	8/3/11 1715	Kate Moss	8/3/11 1715

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Serial_No:08051115:30

ANALYTICAL REPORT

Lab Number:	L1111763
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS MECH
Project Number:	115058
Report Date:	11/21/11

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Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111763
Report Date: 11/21/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111763-01	MW-32	NEW BEDFORD, MA	08/02/11 17:30
L1111763-02	MW-27R	NEW BEDFORD, MA	08/02/11 18:00
L1111763-03	VAC NAPL	NEW BEDFORD, MA	08/03/11 12:00
L1111763-04	VAC EFF	NEW BEDFORD, MA	08/03/11 12:30

Project Name: NBHS MECH **Lab Number:** L1111763
Project Number: 115058 **Report Date:** 11/21/11

Case Narrative

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

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

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

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

Report Submission

This report replaces the one issued on August 18, 2011. The report was amended to include a revised narrate regarding B qualifiers.

Total Petroleum Hydrocarbons (TPH) by GC/FID

The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample is conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of

Project Name: NBHS MECH **Lab Number:** L1111763
Project Number: 115058 **Report Date:** 11/21/11

Case Narrative (continued)

45 reference standards are also utilized to provide the best possible sample match. Quantitative determination of the sample hydrocarbon concentration is performed in accordance with EPA Method 8015M. The sample total hydrocarbon concentration and all associated quality control data are included in the report.

The water method blank, WG483074-1, contained low-level target compounds detected below the reporting limit. Associated field sample results are flagged with B qualifiers if the concentration of the analyte in the sample is less than 5X the concentration in the blank.

The following qualitative information is based on an interpretation of chromatographic pattern recognition and boiling point ranges:

Total Petroleum Hydrocarbon Identification

Sample MW-32 (L1111763-01) did not contain enough chromatographic material for a qualitative identification.

Sample MW-27R (L1111763-02) contains hydrocarbons eluting in the range of n-Octane (C8) to just after the elution of n-Octacosane (C28).

Based on the data generated sample MW-27R (L1111763-02) mainly consists of material eluting in the mid molecular weight range of the chromatogram. The material present is a discrete pattern of resolved peaks eluting between n-Heptadecane (C17) and n-Heptacosane (C27). This pattern is not a chromatographic match to any petroleum standard contained in the reference library.

Samples VAC NAPL (L1111763-03) and VAC EFF (L1111763-04) contain hydrocarbons eluting in the range of n-Nonane (C9) to after the elution of n-Tetracontane (C40).

Project Name: NBHS MECH **Lab Number:** L1111763
Project Number: 115058 **Report Date:** 11/21/11

Case Narrative (continued)

Based on the data generated samples NAPL (L1111763-03) and VAC EFF (L1111763-04) contain material eluting in the mid to high molecular weight ranges of the chromatogram. The material appears to be similar to a combination of a fuel oil which is similar to Fuel Oil #2/Diesel Fuel and material eluting in the heavy molecular weight range of the chromatogram which is similar to lubricating oil. In an analysis of an undegraded product the n-alkanes are typically the dominant constituents, as seen in the petroleum reference chromatogram. As the product degrades, the n-alkanes are preferentially digested, leaving behind other constituents such as isoprenoids.

The analytical testing of the samples identified a dominant pattern of isoprenoids. The presence isoprenoids and apparent absence of alkanes indicates that the fuel oil has undergone degradation.

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: Cynthia McQueen

Title: Technical Director/Representative Date: 11/21/11

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: NBHS MECH **Lab Number:** L1111763

Project Number: 115058 **Report Date:** 11/21/11

SAMPLE RESULTS

Lab ID:	L1111763-01	Date Collected:	08/02/11 17:30
Client ID:	MW-32	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8015D(M)	Extraction Date:	08/05/11 11:22
Analytical Date:	08/09/11 01:00		
Analyst:	NP		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/l	0.066	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		50-130
d50-Tetracosane	81		50-130

Project Name: NBHS MECH **Lab Number:** L1111763

Project Number: 115058 **Report Date:** 11/21/11

SAMPLE RESULTS

Lab ID:	L1111763-02	Date Collected:	08/02/11 18:00
Client ID:	MW-27R	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8015D(M)	Extraction Date:	08/05/11 11:22
Analytical Date:	08/09/11 02:30		
Analyst:	NP		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	0.262	B	mg/l	0.066	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	93		50-130
d50-Tetracosane	93		50-130

Project Name: NBHS MECH **Lab Number:** L1111763

Project Number: 115058 **Report Date:** 11/21/11

SAMPLE RESULTS

Lab ID:	L1111763-03	Date Collected:	08/03/11 12:00
Client ID:	VAC NAPL	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Oil	Extraction Method:	EPA 3580A
Analytical Method:	1,8015D(M)	Extraction Date:	08/05/11 11:25
Analytical Date:	08/09/11 02:30		
Analyst:	NP		
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	486000		mg/kg	6320	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	102		50-130
d50-Tetracosane	100		50-130

Project Name: NBHS MECH **Lab Number:** L1111763

Project Number: 115058 **Report Date:** 11/21/11

SAMPLE RESULTS

Lab ID:	L1111763-04	Date Collected:	08/03/11 12:30
Client ID:	VAC EFF	Date Received:	08/03/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8015D(M)	Extraction Date:	08/05/11 11:22
Analytical Date:	08/09/11 03:59		
Analyst:	NP		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	43.0		mg/l	0.066	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		50-130
d50-Tetracosane	97		50-130

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111763
Report Date: 11/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/08/11 19:00
Analyst: NP

Extraction Method: EPA 3510C
Extraction Date: 08/05/11 11:22

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01-02,04 Batch: WG483074-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/l	0.066	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		50-130
d50-Tetracosane	77		50-130

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111763
Report Date: 11/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/08/11 19:00
Analyst: NP

Extraction Method: EPA 3580A
Extraction Date: 08/05/11 11:25

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 03 Batch: WG483075-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	330	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	104		50-130
d50-Tetracosane	101		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111763
Report Date: 11/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01-02,04 Batch: WG483074-2 WG483074-3								
Nonane (C9)	68		69		50-130	1		30
Decane (C10)	65		66		50-130	2		30
Dodecane (C12)	72		72		50-130	0		30
Tetradecane (C14)	73		72		50-130	1		30
Hexadecane (C16)	76		74		50-130	3		30
Octadecane (C18)	83		81		50-130	2		30
Nonadecane (C19)	75		72		50-130	4		30
Eicosane (C20)	76		74		50-130	3		30
Docosane (C22)	78		75		50-130	4		30
Tetracosane (C24)	79		76		50-130	4		30
Hexacosane (C26)	80		76		50-130	5		30
Octacosane (C28)	79		76		50-130	4		30
Triacontane (C30)	80		75		50-130	6		30
Hexatriacontane (C36)	78		72		50-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	81		77		50-130
d50-Tetracosane	82		78		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS MECH
Project Number: 115058
Lab Number: L1111763
Report Date: 11/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 03 Batch: WG483075-2 WG483075-3								
Nonane (C9)	92		91		50-130	1		30
Decane (C10)	91		91		50-130	0		30
Dodecane (C12)	93		93		50-130	0		30
Tetradecane (C14)	95		95		50-130	0		30
Hexadecane (C16)	98		98		50-130	0		30
Octadecane (C18)	111		111		50-130	0		30
Nonadecane (C19)	100		100		50-130	0		30
Eicosane (C20)	100		100		50-130	0		30
Docosane (C22)	102		102		50-130	0		30
Tetracosane (C24)	103		103		50-130	0		30
Hexacosane (C26)	103		103		50-130	0		30
Octacosane (C28)	103		103		50-130	0		30
Triacontane (C30)	101		100		50-130	1		30
Hexatriacontane (C36)	101		100		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	104		105		50-130
d50-Tetracosane	102		102		50-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111763
Report Date: 11/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG483075-4 QC Sample: L1111763-03 Client ID: VAC NAPL						
Total Petroleum Hydrocarbons (C9-C44)	486000	464000	mg/kg	5		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	102		101		50-130
d50-Tetracosane	100		99		50-130

Project Name: NBHS MECH
Project Number: 115058

Lab Number: L1111763
Report Date: 11/21/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111763-01A	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	A2-PHI(7)
L1111763-01B	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	A2-PHI(7)
L1111763-02A	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	A2-PHI(7)
L1111763-02B	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	A2-PHI(7)
L1111763-03A	Vial unpreserved	A	N/A	2.1	Y	Absent	A2-PHI(365)
L1111763-04A	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	A2-PHI(7)
L1111763-04B	Amber 1000ml unpreserved	A	7	2.1	Y	Absent	A2-PHI(7)

*Values in parentheses indicate holding time in days

Project Name:	NBHS MECH	**Lab Number:**	L1111763
Project Number:	115058	**Report Date:**	11/21/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS MECH	**Lab Number:**	L1111763
Project Number:	115058	**Report Date:**	11/21/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS MECH **Lab Number:** L1111763
Project Number: 115058 **Report Date:** 11/21/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 19, 2011 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, SM2540D, 2540G, , EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9050A, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1111763

Client Information

Client: TRC
Address: 650 SUFFOLK ST. LOWELL MA
Phone: 978-970-5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM ALEONARD@TRCSOLUTIONS.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH
Project Location: NEWBEDFORD MA.
Project #: 115058 TE1 PCB.
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!) * PCBs ONLY 48 HR.
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State /Fed Program EPA Criteria TSCA.

Billing Information

☐ Same as Client info PO #:

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ANALYSIS: ~~PCBs by 8082~~ 8100M TPH DRO FINGERPRINT

SAMPLE HANDLING
Filtration: ☐ Done ☑ Not needed ☐ Lab to do
Preservation: ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~PCBs by 8082~~	8100M TPH DRO FINGERPRINT	Total # Bottles	Sample Specific Comments
L1111763-1	MW-32	8/2	17:30	GW	JF	✓	✓		RUSH PCBs
-2	MW-27R	8/2	18:00	GW	JF	✓	✓		" "
-3	VAC NAPL	8/3	12:00	O	JF	✓	✓		" "
-4	VAC EFF	8/3	12:30	E	JF	✓	✓		" "

Container Type	A	A
Preservative	A	A

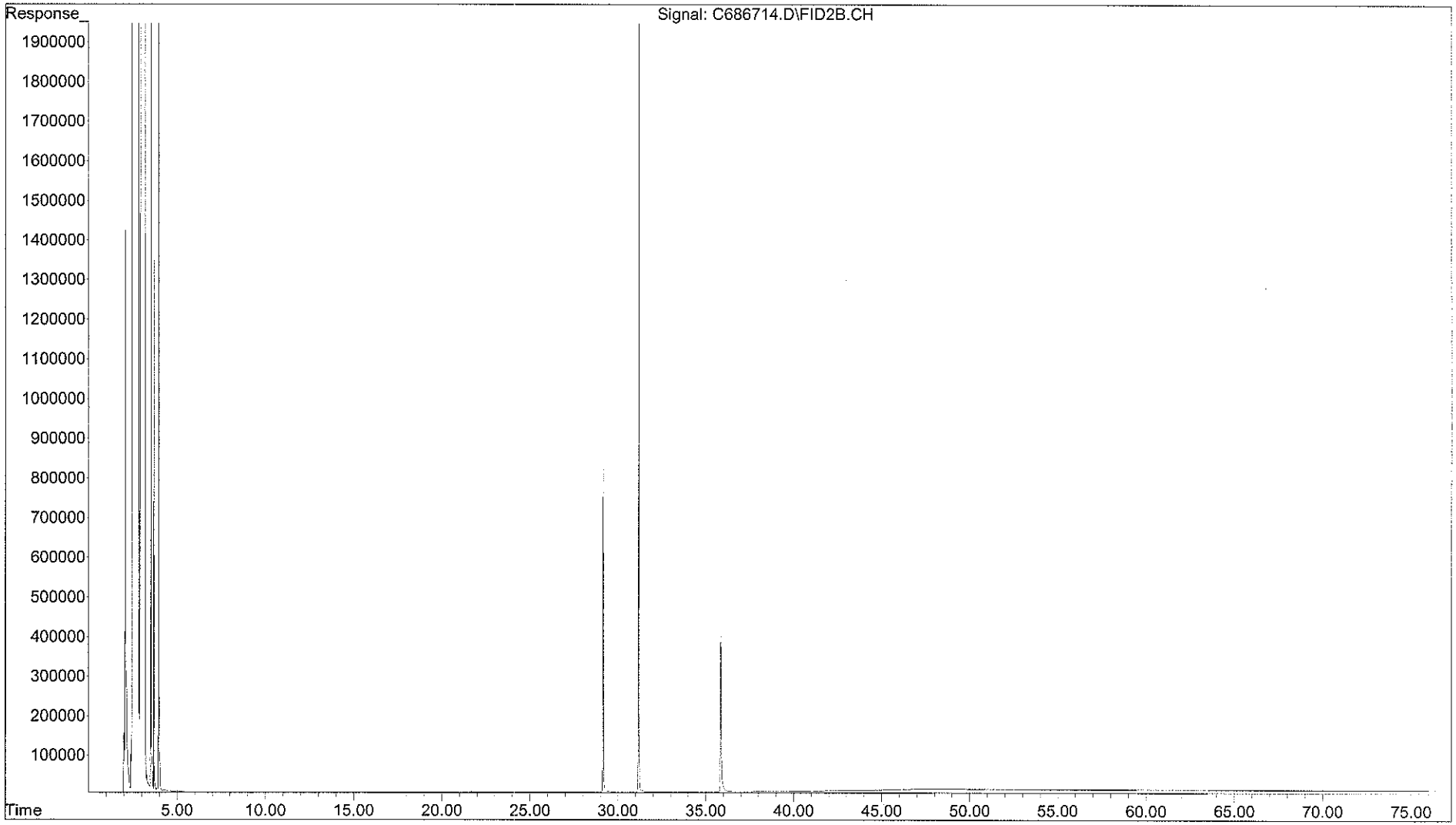
Relinquished By:	Date/Time	Received By:	Date/Time
Jam C. Fine	8/3/11 1625	[illegible]	8/3/11 1625

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

GC-FID Chromatogram

File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29.SEC\C686714.D
Operator : FID6:NPS
Acquired : 09 Aug 2011 1:00 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: L1111763-01,42
Misc Info : WG483760,WG483074
Vial Number: 70



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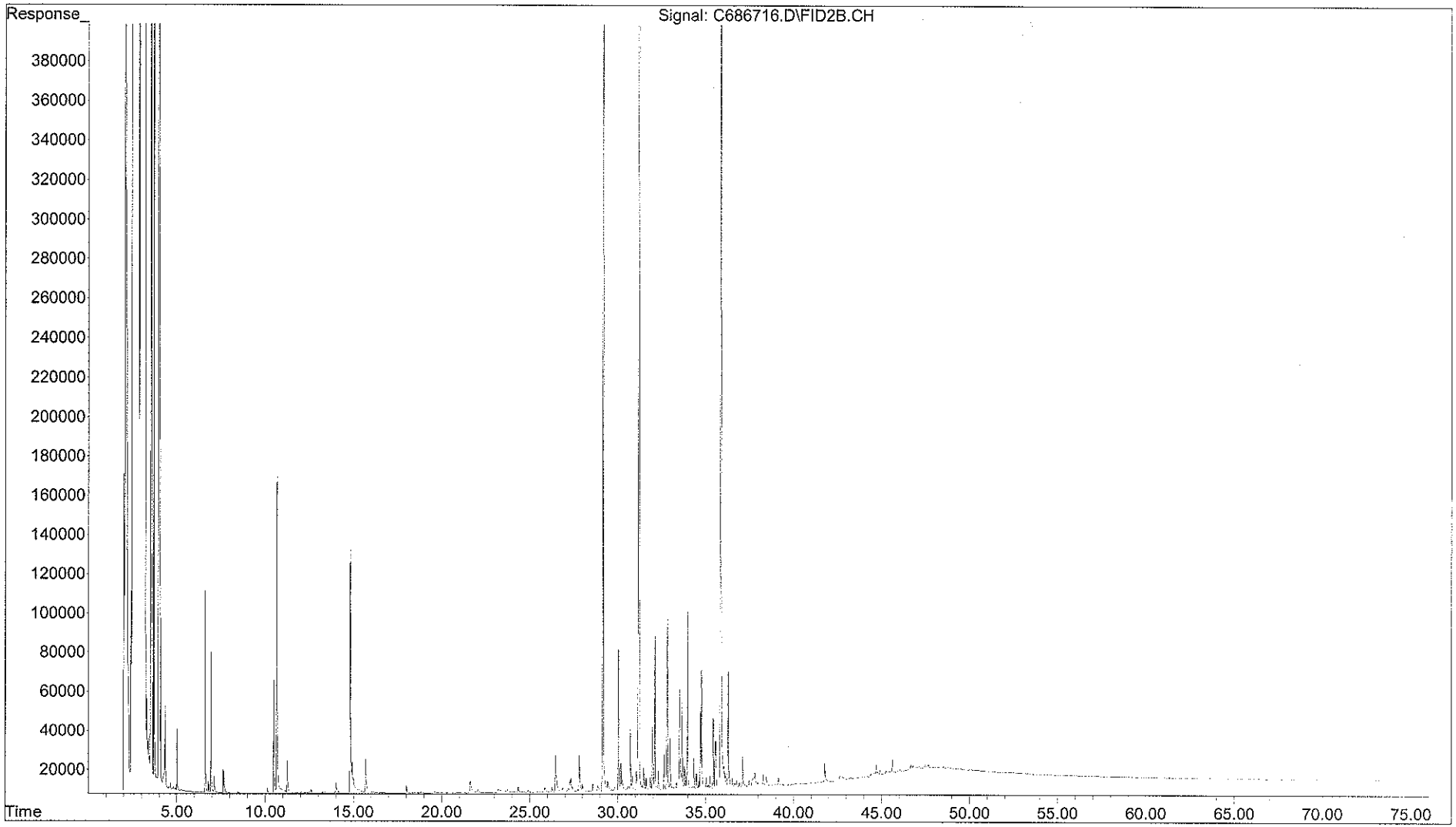
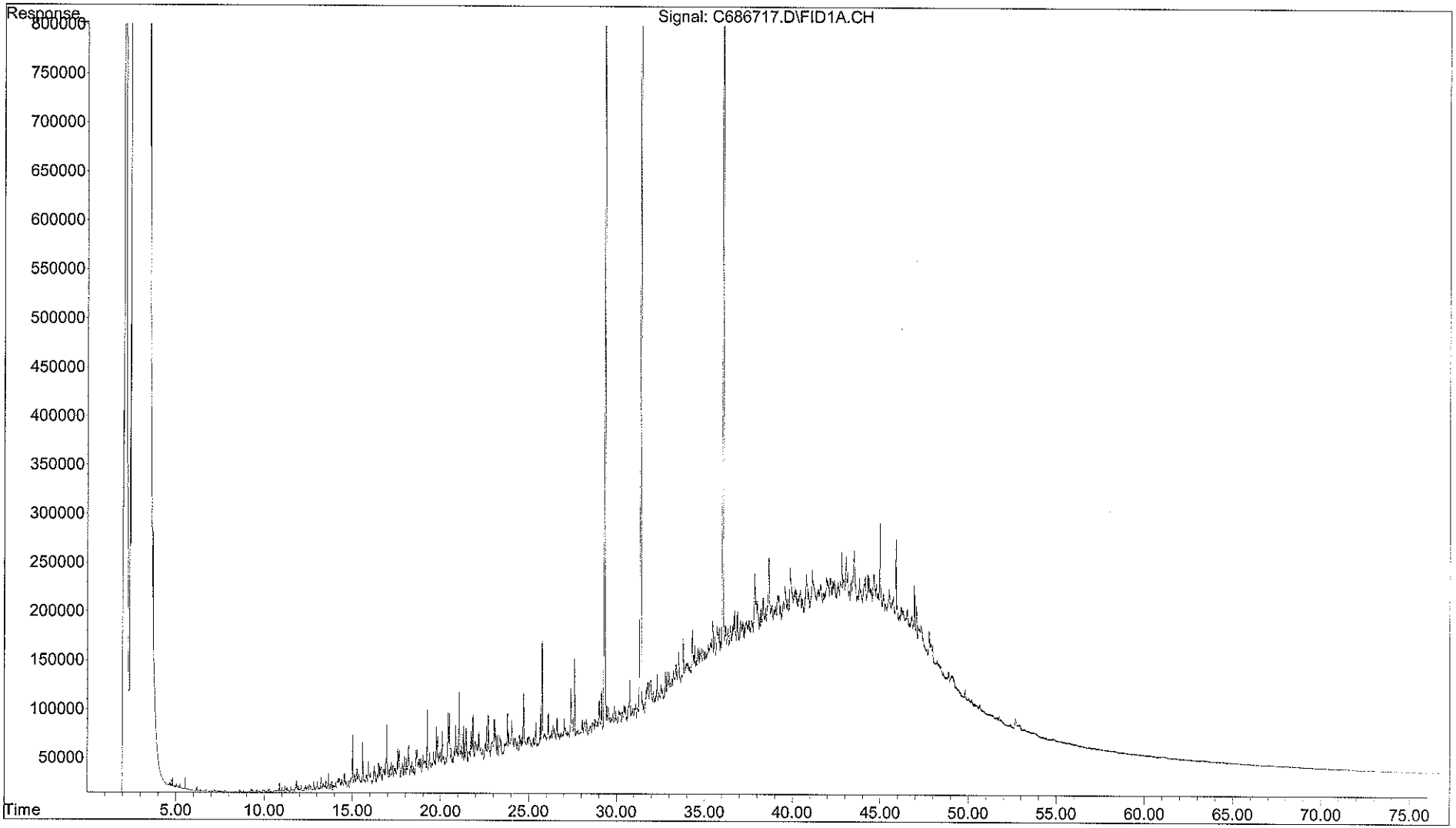
Operator : FID6:NPS
Acquired : 09 Aug 2011 2:30 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: L1111763-02,42
Misc Info : WG483760,WG483074
Vial Number: 71



File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29\SREV\C686717.D
Operator : FID6:NPS
Acquired : 09 Aug 2011 2:30 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: L1111763-03,42
Misc Info : WG483761,WG483075
Vial Number: 21



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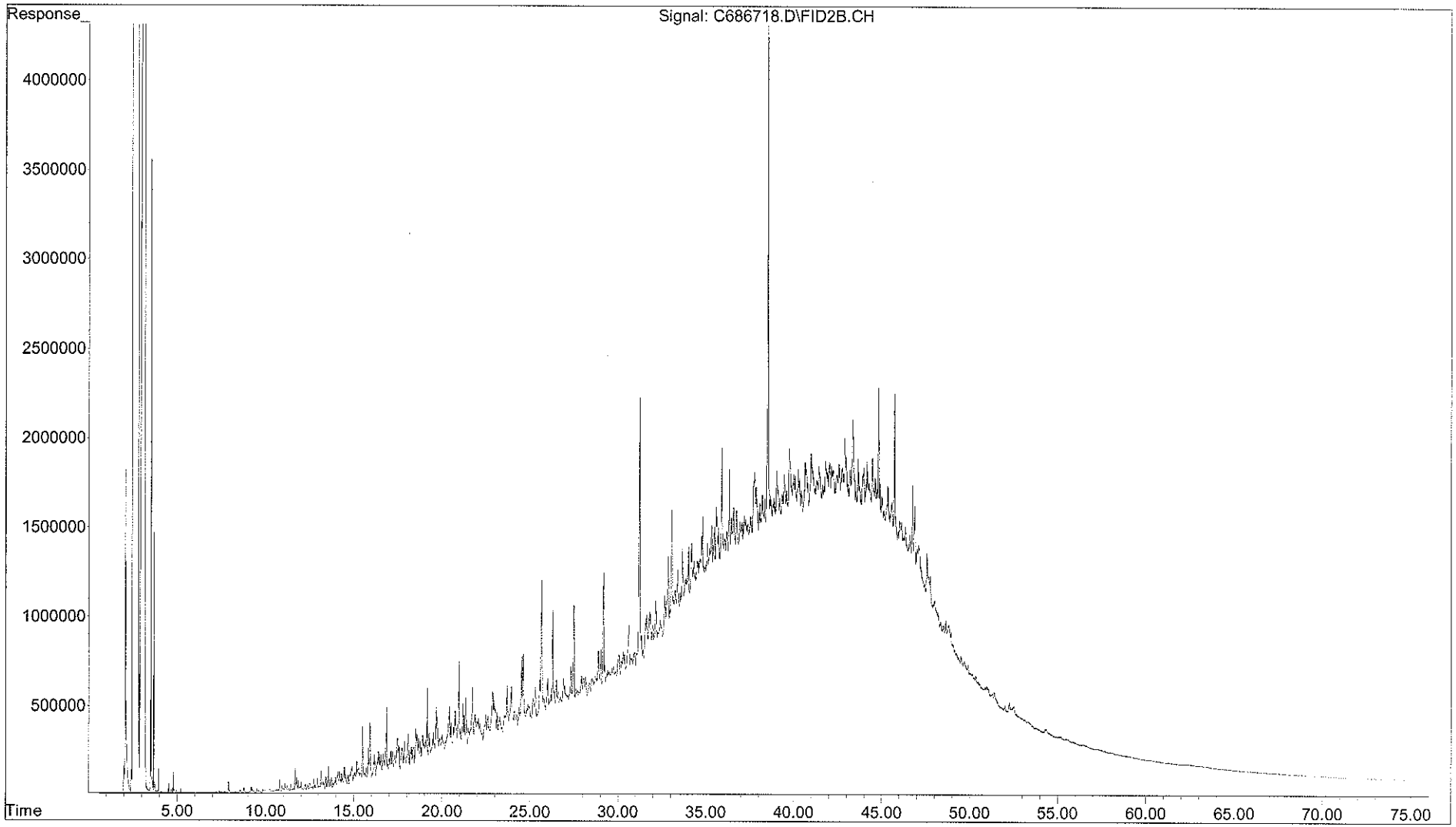
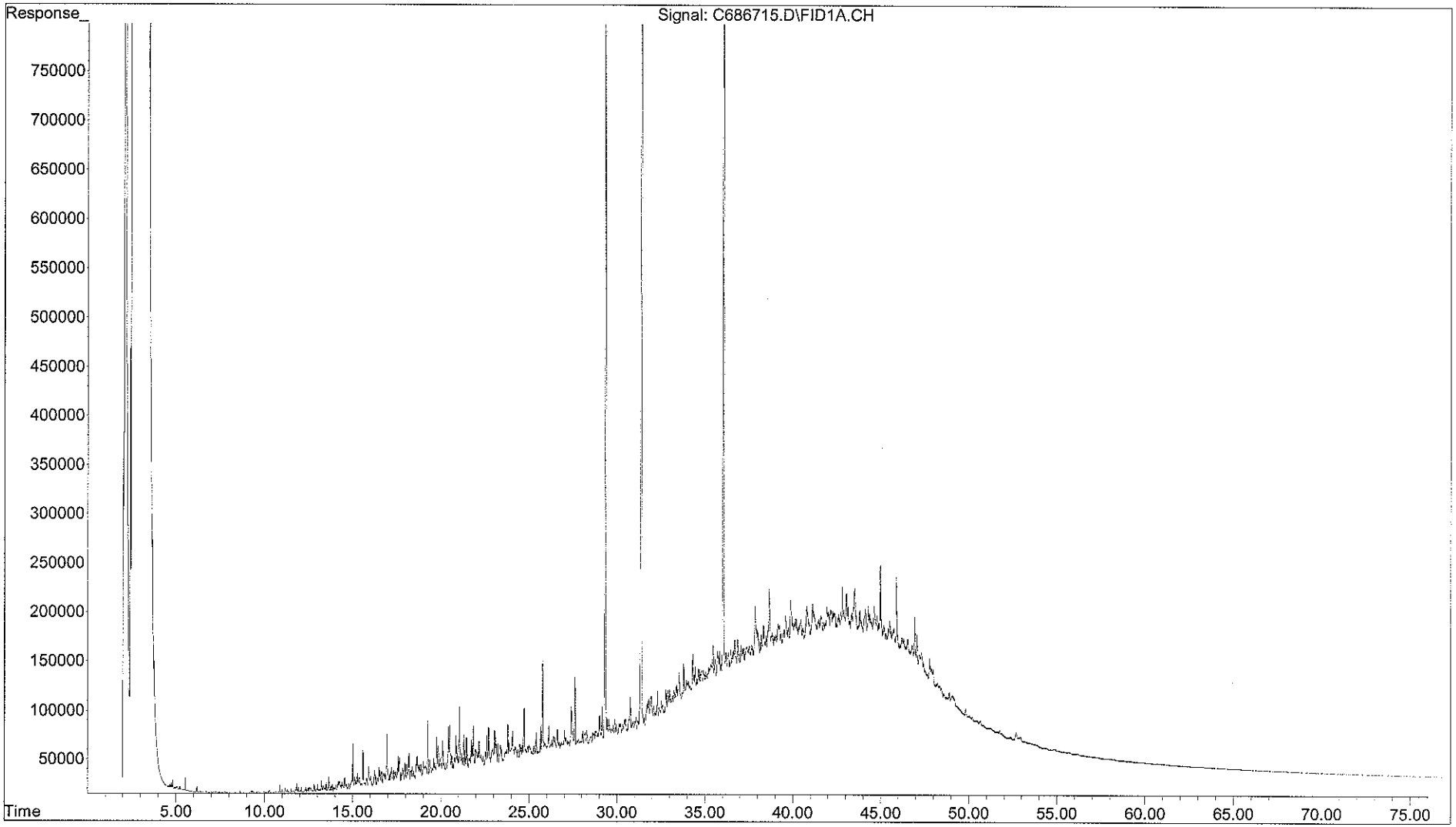
Operator : FID6:NPS
Acquired : 09 Aug 2011 3:59 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: L1111763-04,42
Misc Info : WG483760,WG483074
Vial Number: 72



File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29\SREV\C686715.D
Operator : FID6:NPS
Acquired : 09 Aug 2011 1:00 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483075-4,42
Misc Info : WG483761,WG483075
Vial Number: 20



File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29.SEC\C686708.D
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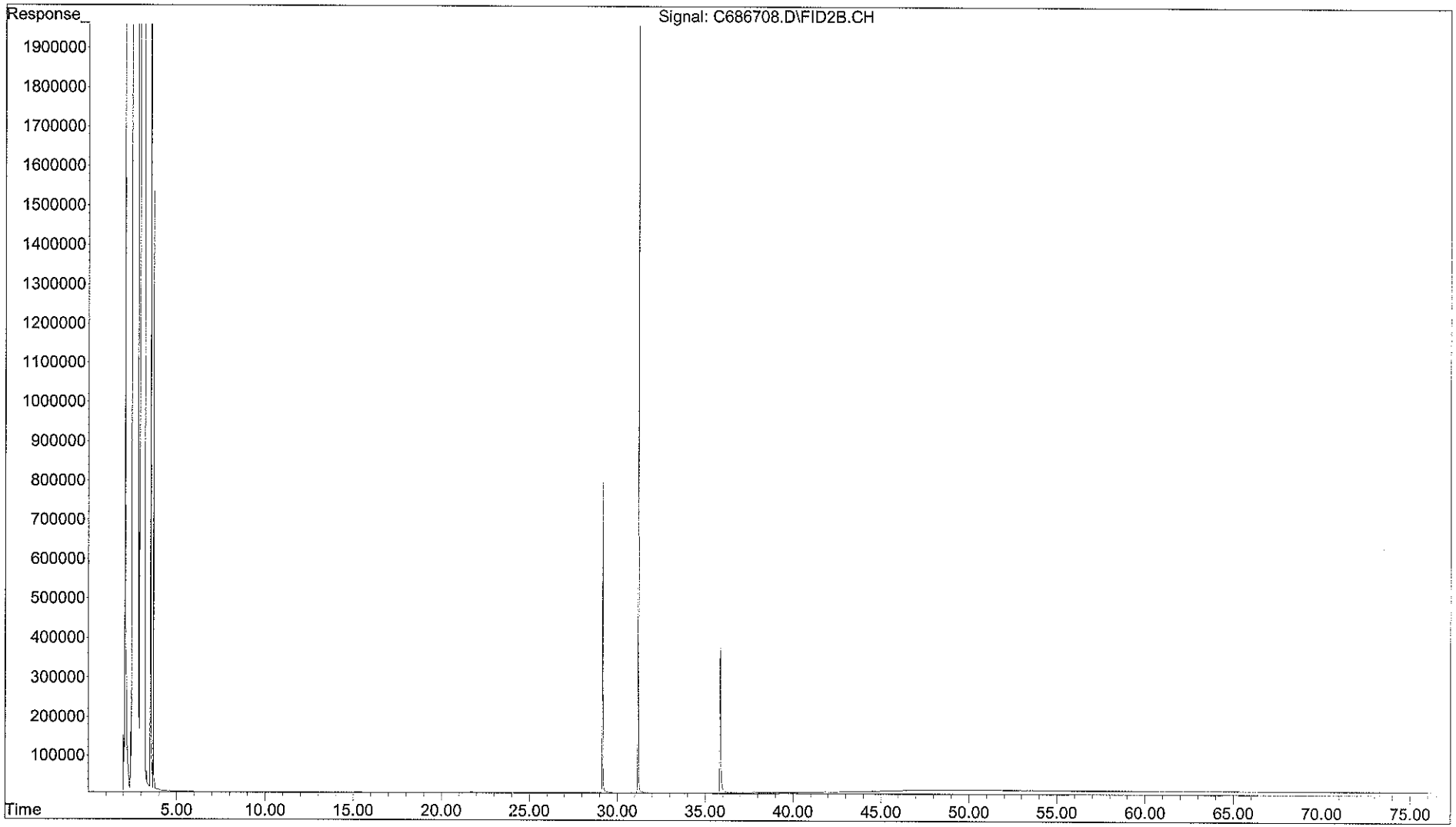
Acquired : 08 Aug 2011 7:00 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483074-1,42
Misc Info : WG483760,WG483074
Vial Number: 66



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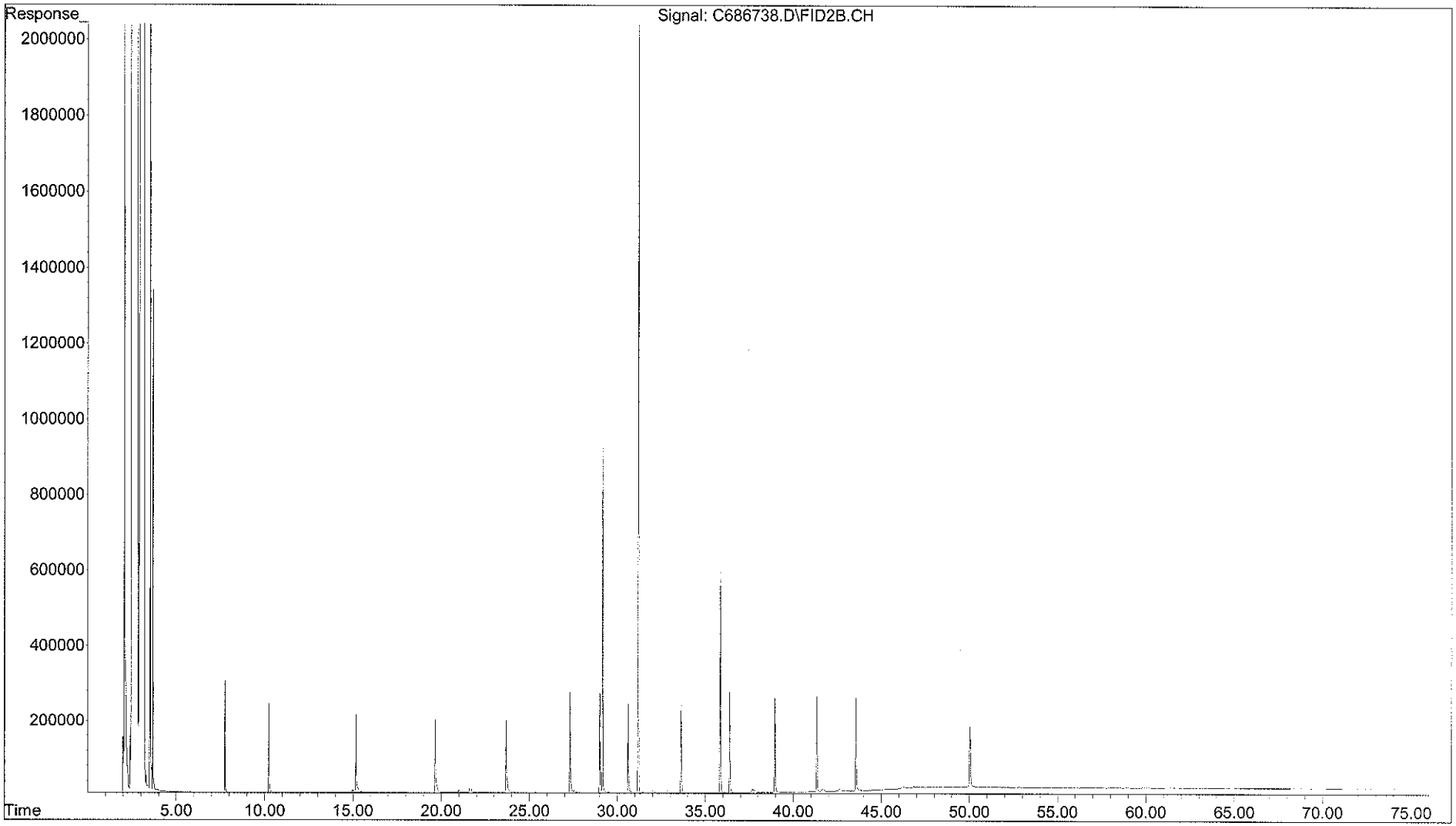
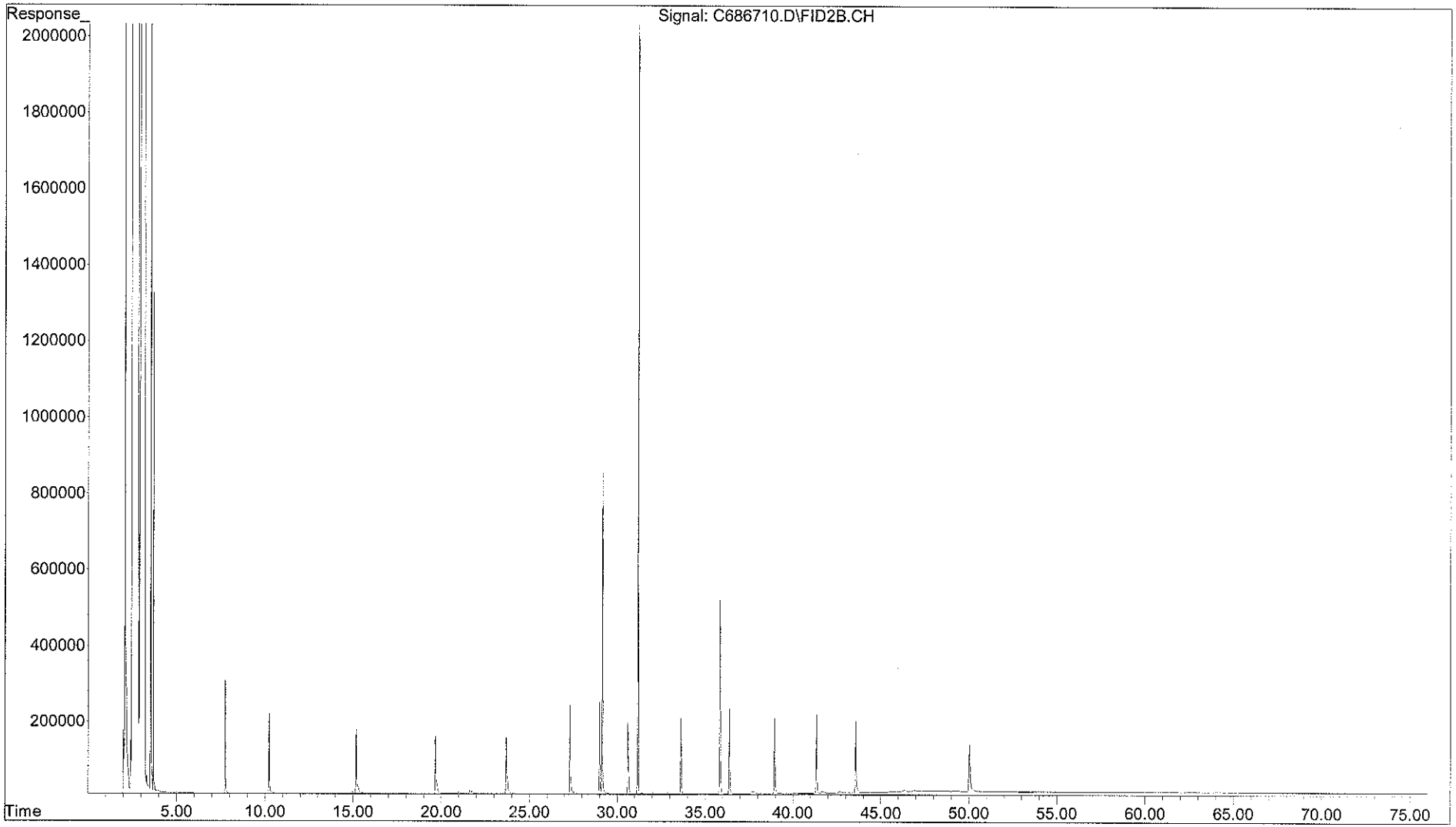
Acquired : 09 Aug 2011 2:35 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483074-2,42
Misc Info : WG483760,WG483074
Vial Number: 55



File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29.SEC\C686710.D
Operator : FID:NPS
Acquired : 08 Aug 2011 10:00 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483074-3,42
Misc Info : WG483760,WG483074
Vial Number: 68



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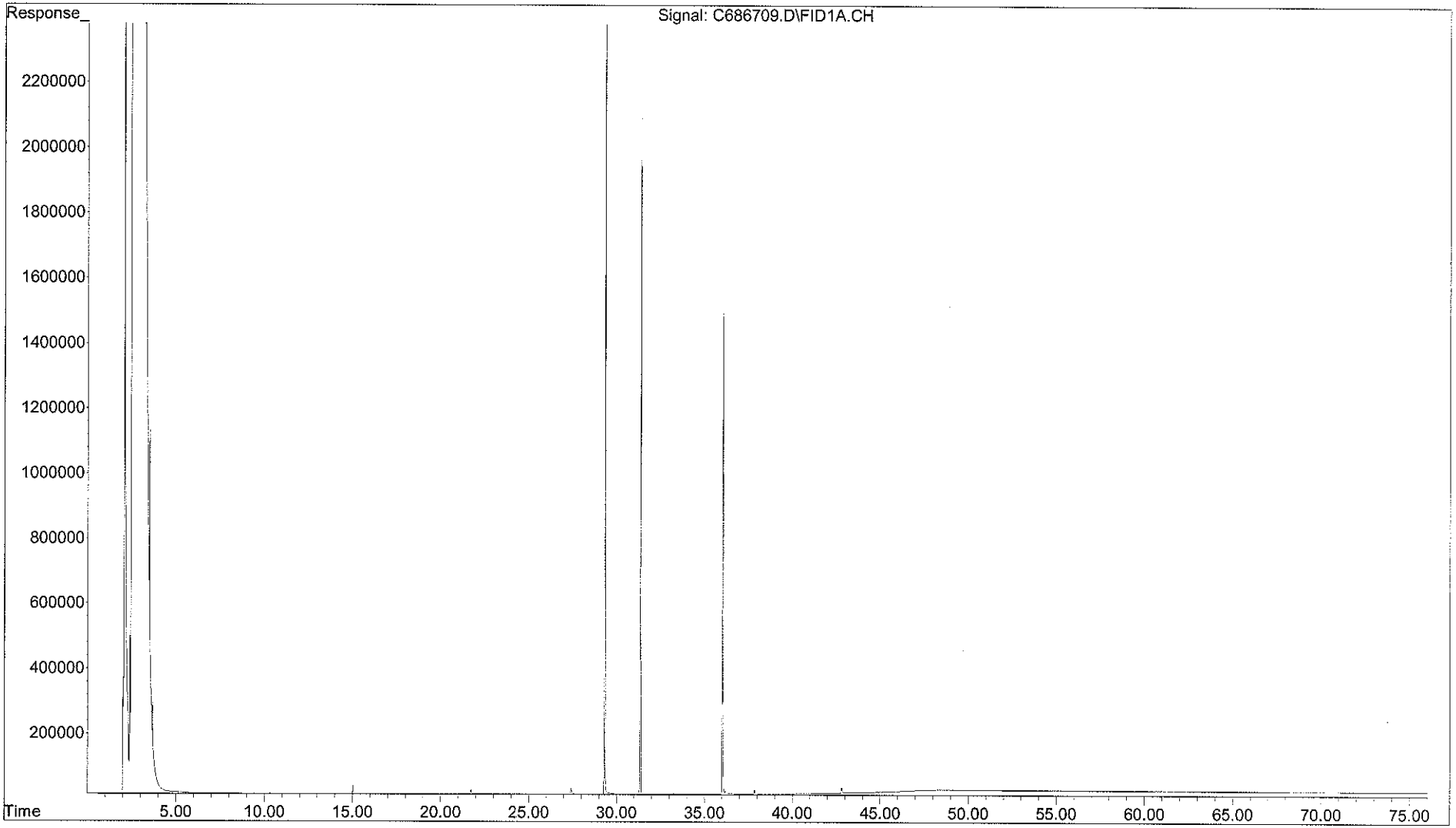
Operator : FID6:NPS
Acquired : 08 Aug 2011 7:00 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483075-1,42
Misc Info : WG483761,WG483075
Vial Number: 16



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Operator : FID6:NPS
Acquired : 09 Aug 2011 1:04 pm using AcqMethod FID6A.M
Instrument : FID6
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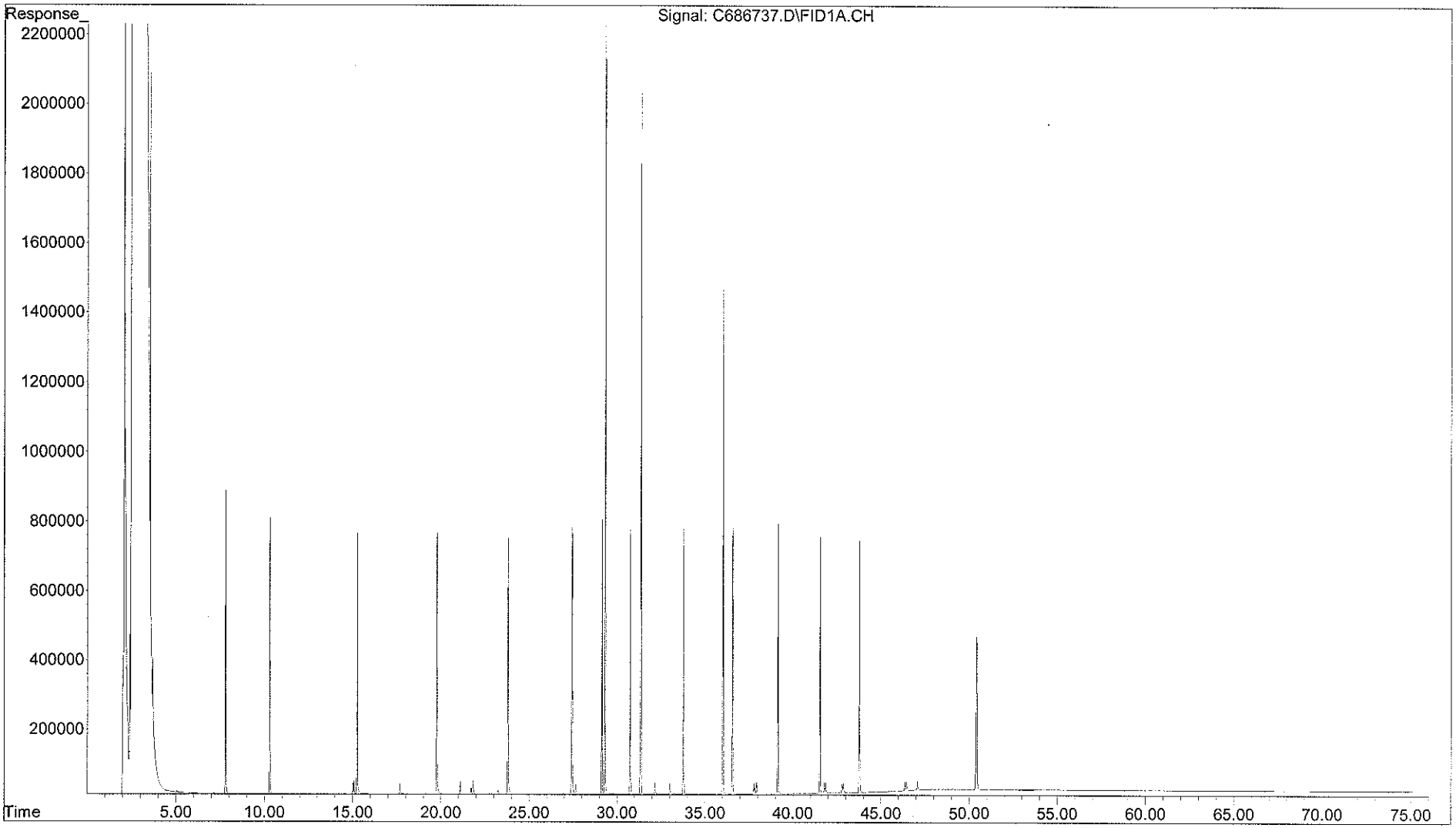
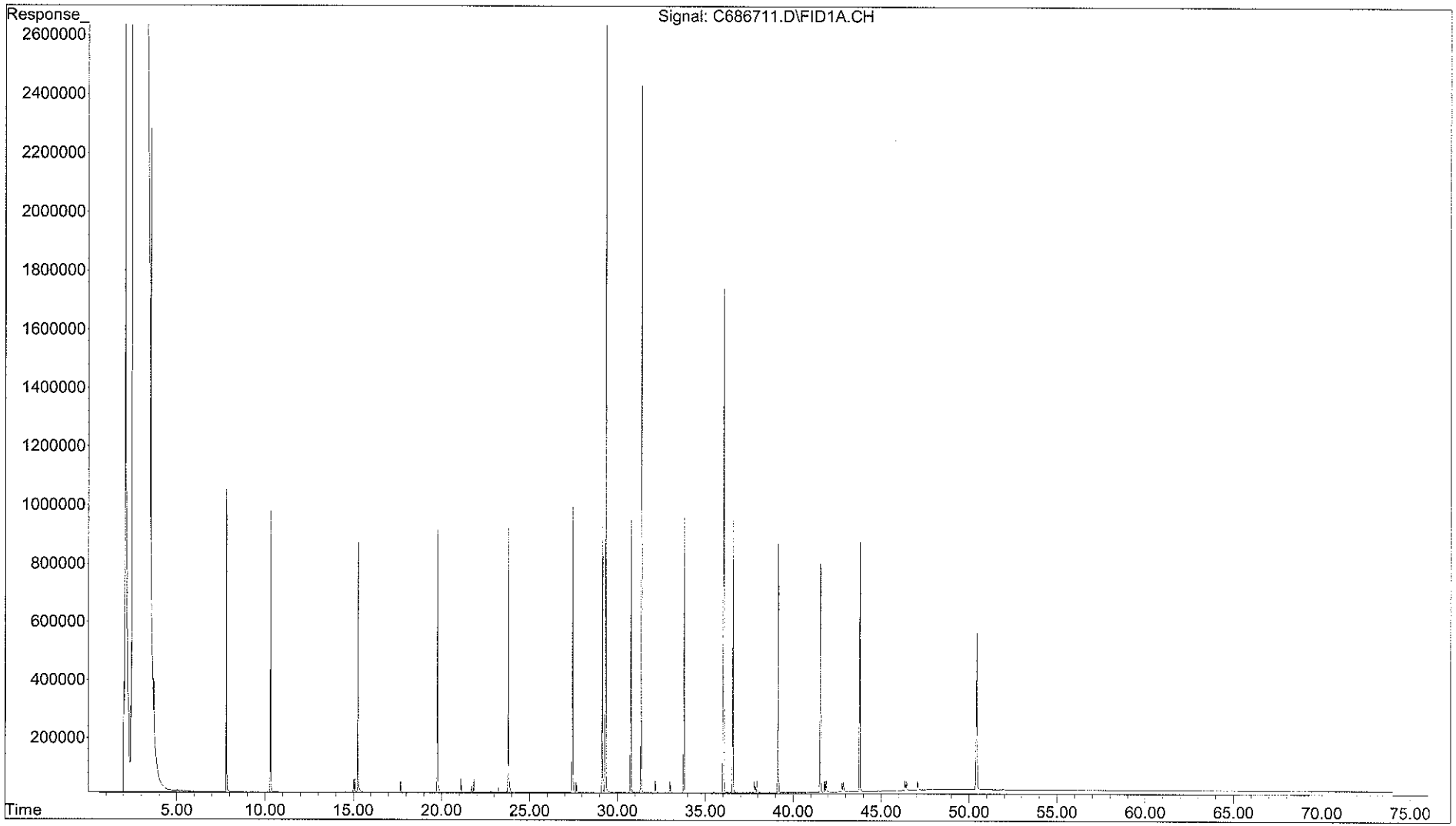
Misc Info : WG483761,WG483075
Vial Number: 4



File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29\SREV\C686711.D
Operator : FID6:NPS
Acquired : 08 Aug 2011 10:00 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483075-3,42
Misc Info : WG483761,WG483075
Vial Number: 18



Petroleum Reference Standards

Data Path : O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29\SREV\
Data File : C686719.D
Signal(s) : FID1A.CH
Acq On : 09 Aug 2011 3:59 am
Operator : FID6:NPS
Sample : WG483761-2
Misc : Alkane Reference Standard (C8 - C40)
ALS Vial : 22 Sample Multiplier: 1

Integration File: SHCINT2.E
Quant Time: Aug 10 07:50:54 2011
Quant Method : O:\Forensics\Methods\FID6\HC6071311F.M
Quant Title : FID Forensics
QLast Update : Mon Aug 01 05:45:16 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

8/18/11

Sub List : CCAL - CCAL

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.371	60664970	50.000 ug/mL M4
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.337	63914326	50.867 ug/mL M4
Spiked Amount	50.000 Range	50 - 130	Recovery	= 101.73%
24) s	d50-Tetracosane	36.042	52544226	51.295 ug/mL M4
Spiked Amount	50.000 Range	50 - 130	Recovery	= 102.59%
	Target Compounds			
2) t	n-Octane (C8)	5.596	42723225	44.719 ug/mL M4
3) t	n-Nonane (C9)	7.818	47362718	45.219 ug/mL M4
4) t	n-Decane (C10)	10.314	51531961	46.598 ug/mL M4
5) t	n-Undecane (C11)	12.835	52392146	46.963 ug/mL M4
6) t	n-Dodecane (C12)	15.272	53806122	47.594 ug/mL M4
7) t	n-Tridecane (C13)	17.586	54513837	47.942 ug/mL
9) t	n-Tetradecane (C14)	19.778	55477392	48.332 ug/mL
11) t	n-Pentadecane (C15)	21.853	55516191	48.694 ug/mL M4
12) t	n-Hexadecane (C16)	23.820	56410395	49.021 ug/mL M4
14) t	n-Heptadecane (C17)	25.688	57010704	49.130 ug/mL M4
15) t	Pristane	25.800	58342303	49.856 ug/mL M4
16) t	n-Octadecane (C18)	27.465	57905536	49.758 ug/mL M4
17) t	Phytane	27.631	57542091	49.919 ug/mL M4
18) t	n-Nonadecane (C19)	29.161	57737439	50.081 ug/mL M4
20) t	n-Eicosane (C20)	30.777	58809417	50.339 ug/mL M4
21) t	n-Heneicosane (C21)	32.321	58774655	50.651 ug/mL M4
22) t	n-Docosane (C22)	33.803	59316702	50.989 ug/mL
23) t	n-Tricosane (C23)	35.226	59392245	51.199 ug/mL M4
25) t	n-Tetracosane (C24)	36.591	59333388	51.510 ug/mL
26) t	n-Pentacosane (C25)	37.908	60632471	51.588 ug/mL M4
27) t	n-Hexacosane (C26)	39.171	60414847	51.763 ug/mL M4
28) t	n-Heptacosane (C27)	40.393	60075147	51.975 ug/mL M4
29) t	n-Octacosane (C28)	41.570	59694793	52.117 ug/mL M4
30) t	n-Nonacosane (C29)	42.710	59501124	52.100 ug/mL M4

Data Path : O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29\SREV\
Data File : C686719.D
Signal(s) : FID1A.CH
Acq On : 09 Aug 2011 3:59 am
Operator : FID6:NPS
Sample : WG483761-2
Misc : Alkane Reference Standard (C8 - C40)
ALS Vial : 22 Sample Multiplier: 1

Integration File: SHCINT2.E
Quant Time: Aug 10 07:50:54 2011
Quant Method : O:\Forensics\Methods\FID6\HC6071311F.M
Quant Title : FID Forensics
QLast Update : Mon Aug 01 05:45:16 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

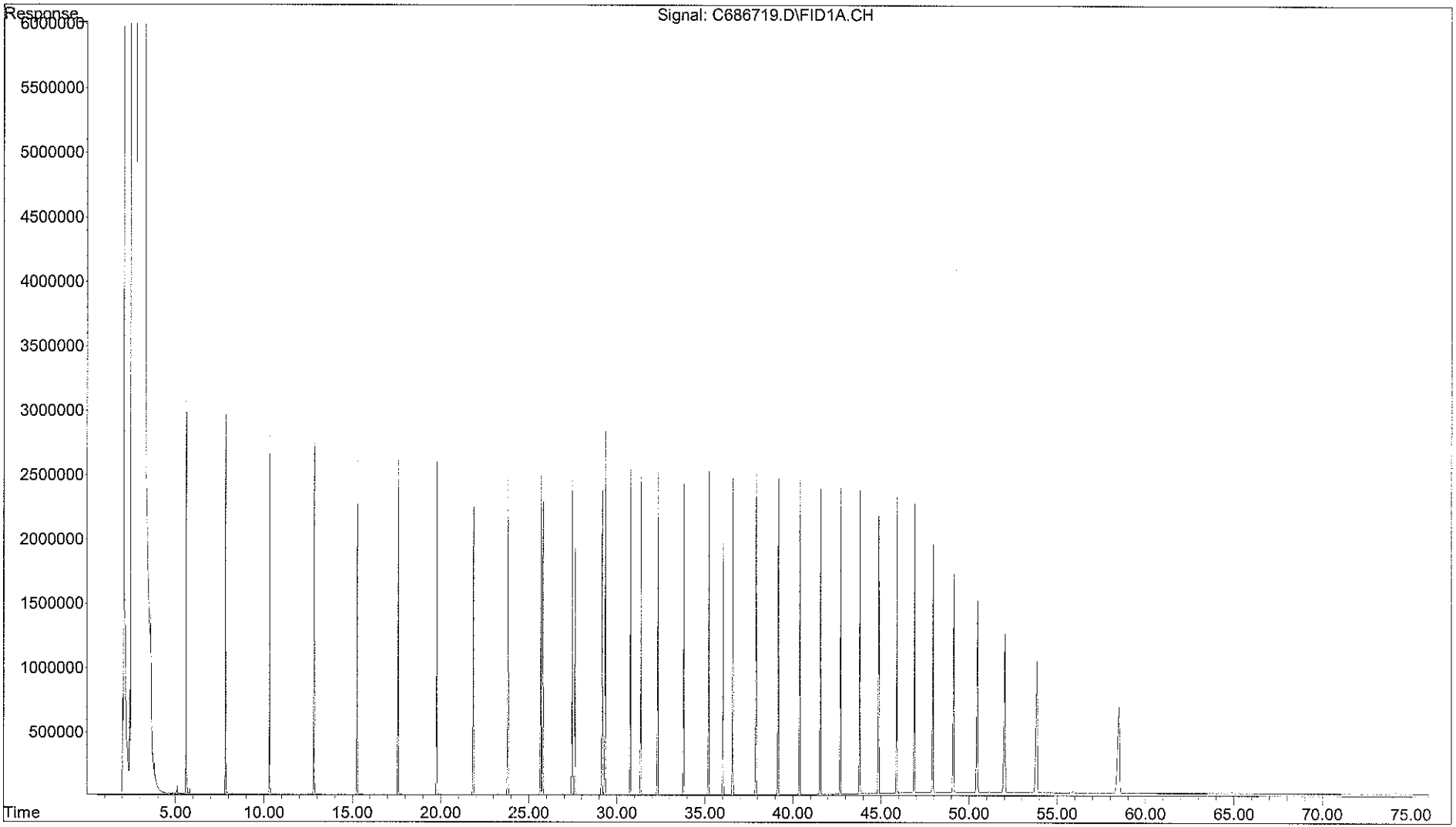
Sub List : CCAL - CCAL

	Compound	R.T.	Response	Conc	Units	
31) t	n-Triacontane (C30)	43.813	60585019	51.768	ug/mL	M4
32) t	n-Hentriacontane (C31)	44.879	59587731	52.025	ug/mL	M4
33) t	n-Dotriacontane (C32)	45.910	58796983	51.936	ug/mL	M4
34) t	n-Tritriacontane (C33)	46.915	59518697	51.990	ug/mL	M4
35) t	n-tetratriacontane (C34)	47.957	58758162	52.059	ug/mL	M4
36) t	n-Pentatriacontane (C35)	49.131	59303292	52.025	ug/mL	M4
37) t	n-Hexatriacontane (C36)	50.477	60829927	52.275	ug/mL	M4
38) t	n-Heptatriacontane (C37)	52.028	59653677	52.235	ug/mL	M4
39) t	n-Octatriacontane (C38)	53.845	59510434	52.593	ug/mL	M4
41) t	n-Tetracontane (C40)	58.503	55011361	52.960	ug/mL	M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\FORENSICS\DATA\FID6\2011\JULY2011\JULY29\SREV\C686719.D
Operator : FID6:NPS
Acquired : 09 Aug 2011 3:59 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG483761-2
Misc Info : Alkane Reference Standard (C8 - C40)
Vial Number: 22



File :O:\FORENSICS\DATA\FID6\2009\JAN09\JAN12\A67178.D
Operator : NLJr
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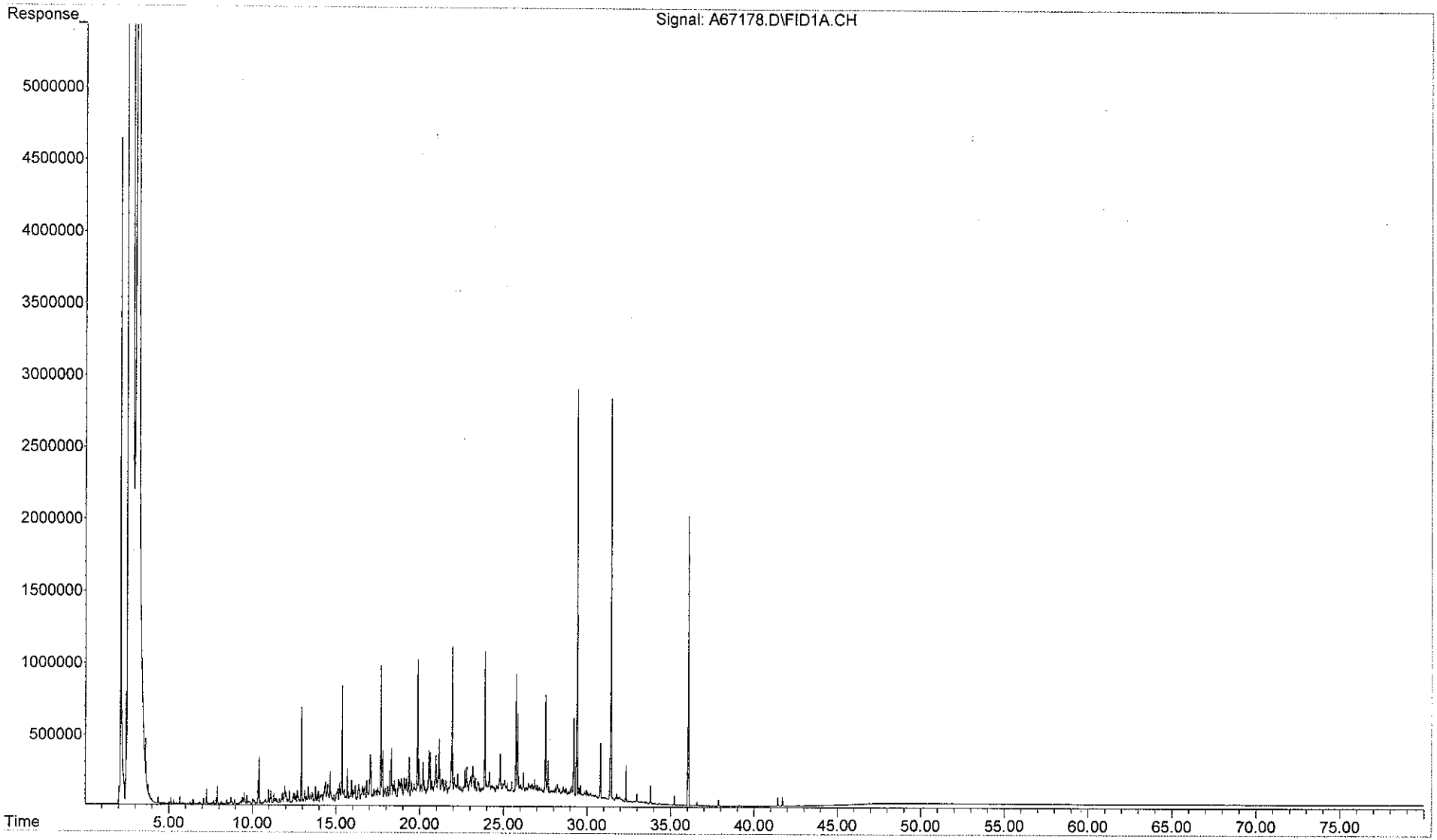
Instrument : FID6
Sample Name: R6011208
Misc Info : DIESEL FUEL # 2
Vial Number: 31



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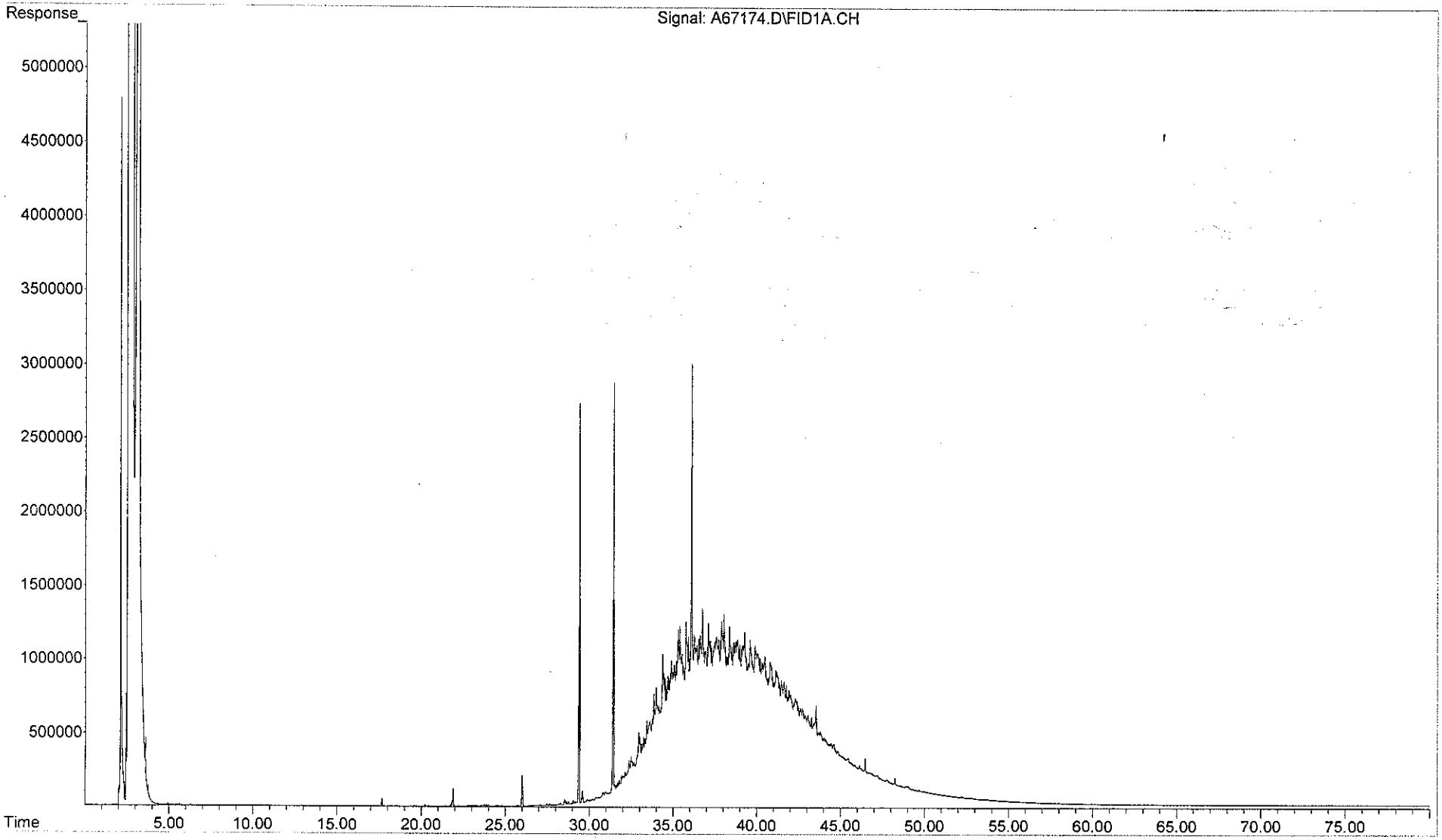
Operator : NLJr
Acquired : 14 Jan 2009 7:42 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: R6011206
Misc Info : SAE 5W30 MOTOR OIL
Vial Number: 29



ANALYTICAL REPORT

Lab Number:	L1111864
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3600
Project Name:	NBHS MECH ROOM
Project Number:	115058
Report Date:	08/10/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111864
Report Date: 08/10/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111864-01	MW27R WIPE	NEW BEDFORD	08/05/11 12:00

Project Name: NBHS MECH ROOM **Lab Number:** L1111864
Project Number: 115058 **Report Date:** 08/10/11

Case Narrative

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

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

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

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

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were transported to the laboratory in a cooler but were not on ice. Per prior client notification and authorization of the exceedance, all requested analyses were performed.

PCB

L1111864-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The surrogate recoveries for L1111864-01 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (both 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

The WG483435-1 Method Blank, associated with L1111864-01, has a concentration above the reporting limit

Project Name:	NBHS MECH ROOM	**Lab Number:**	L1111864
Project Number:	115058	**Report Date:**	08/10/11

Case Narrative (continued)

for Aroclor 1254. Since the associated sample concentrations are greater than 10x the Method Blank concentration for this analyte, no qualification of the results was performed.

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

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative

Date: 08/10/11

ORGANICS

PCBS

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111864
Report Date: 08/10/11

SAMPLE RESULTS

Lab ID:	L1111864-01	D	Date Collected:	08/05/11 12:00
Client ID:	MW27R WIPE		Date Received:	08/05/11
Sample Location:	NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Wipe		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/08/11 16:15
Analytical Date:	08/10/11 11:03		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/09/11
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/09/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug Abs	1500	--	5000
Aroclor 1221	ND		ug Abs	1500	--	5000
Aroclor 1232	ND		ug Abs	1500	--	5000
Aroclor 1242	ND		ug Abs	1500	--	5000
Aroclor 1248	ND		ug Abs	1000	--	5000
Aroclor 1260	ND		ug Abs	1000	--	5000
Aroclor 1262	ND		ug Abs	500	--	5000
Aroclor 1268	ND		ug Abs	500	--	5000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111864
Report Date: 08/10/11

SAMPLE RESULTS

Lab ID:	L1111864-01	D	Date Collected:	08/05/11 12:00
Client ID:	MW27R WIPE		Date Received:	08/05/11
Sample Location:	NEW BEDFORD		Field Prep:	Not Specified
Matrix:	Wipe		Extraction Method:	EPA 3540C
Analytical Method:	1,8082		Extraction Date:	08/08/11 16:15
Analytical Date:	08/10/11 11:03		Cleanup Method1:	EPA 3665A
Analyst:	KB		Cleanup Date1:	08/09/11
			Cleanup Method2:	EPA 3660B
			Cleanup Date2:	08/09/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1254	17500		ug Abs	1500	--	5000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS MECH ROOM

Project Number: 115058

Lab Number: L1111864

Report Date: 08/10/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/10/11 11:20
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/08/11 16:15
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/09/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/09/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01 Batch: WG483435-1					
Aroclor 1016	ND		ug Abs	0.300	--
Aroclor 1221	ND		ug Abs	0.300	--
Aroclor 1232	ND		ug Abs	0.300	--
Aroclor 1242	ND		ug Abs	0.300	--
Aroclor 1248	ND		ug Abs	0.200	--
Aroclor 1260	ND		ug Abs	0.200	--
Aroclor 1262	ND		ug Abs	0.100	--
Aroclor 1268	ND		ug Abs	0.100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	45		30-150
Decachlorobiphenyl	41		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	41		30-150

Project Name: NBHS MECH ROOM

Project Number: 115058

Lab Number: L1111864

Report Date: 08/10/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/10/11 11:20
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 08/08/11 16:15
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/09/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/09/11

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01 Batch: WG483435-1					
Aroclor 1254	0.336		ug Abs	0.300	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	45		30-150
Decachlorobiphenyl	41		30-150
2,4,5,6-Tetrachloro-m-xylene	49		30-150
Decachlorobiphenyl	41		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS MECH ROOM

Project Number: 115058

Lab Number: L1111864

Report Date: 08/10/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01 Batch: WG483435-2 WG483435-3								
Aroclor 1016	61		48		40-140	23		50
Aroclor 1260	51		47		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		45		30-150
Decachlorobiphenyl	52		47		30-150
2,4,5,6-Tetrachloro-m-xylene	46		42		30-150
Decachlorobiphenyl	47		44		30-150

Project Name: NBHS MECH ROOM
Project Number: 115058

Lab Number: L1111864
Report Date: 08/10/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111864-01A	Glass 100ml unpreserved	N/A	N/A	20.2	Y	Absent	PCB-8082LL-3540C(14)
L1111864-01B	Glass 100ml unpreserved	N/A	N/A	20.2	Y	Absent	PCB-8082LL-3540C(14)

*Values in parentheses indicate holding time in days

Project Name: NBHS MECH ROOM **Lab Number:** L1111864

Project Number: 115058 **Report Date:** 08/10/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: NBHS MECH ROOM **Lab Number:** L1111864

Project Number: 115058 **Report Date:** 08/10/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS MECH ROOM **Lab Number:** L1111864
Project Number: 115058 **Report Date:** 08/10/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1111864

Client Information

Client: TRC
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978-970-5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM ALEONARD
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH ROOM
Project Location: NEW BEDFORD
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

RUN WIPE PENDING PCB GW RESULTS FROM MW 27R & MW 32
CONTACT AL LEONARD.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	WIPE	SOXHLET EXT.	Sample Specific Comments	TOTAL # BOTTLES
L1111864-1	MW 27R WIPE	8/5	12:00	W	JF	H			HOLD FOR GW PCB RESULTS FROM MW 27R & 32	2

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	G															
Preservative	–															

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/5 13:10	[signature]	8/5/11 1310

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:08101113:29

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1111864

Client Information

Client: TRC

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978-970-5600

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS MECH ROOM

Project Location: NEW BEDFORD

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

RUN WIPE PENDING PCB GW RESULTS FROM MW 27R & MW 32
CONTACT AL LEONARD.

ANALYSIS: PCBs SOXHLET EXT. WIPE

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	SOXHLET EXT.	WIPE	Sample Specific Comments	TOTAL # BOTTLES
L1111864-1	MW27R WIPE	8/5	12:00	W	JF	H			HOLD FOR GW PCB RESULTS FROM MW27R & 32	2

Container Type	G															
Preservative	–															

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8/5 13:10	[illegible]	8/5/11 1310
[illegible]	8/5/11 1400	[illegible]	8/5/11 1610
[illegible]	8/5/11 1730	[illegible]	8/5/11 1730

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1113042
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS
Project Number:	115058
Report Date:	11/21/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NBHS
Project Number: 115058

Lab Number: L1113042
Report Date: 11/21/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113042-01	MW-27R	NEW BEDFORD	08/22/11 11:30

Project Name: NBHS **Lab Number:** L1113042
Project Number: 115058 **Report Date:** 11/21/11

Case Narrative

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

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

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

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

Report Submission

This report replaces the one issued on August 24, 2011. The report was amended to include revised B flags.

PCB Aroclors

L1113042-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample. The surrogate recoveries for L1113042-01 are below the acceptance criteria for Tetrachloro-meta-xylene (0%) and Decachlorobiphenyl (0%) due to the dilution required to quantitate the sample.

The WG485952-1 Method Blank, associated with L1113042-01, has a concentration above the reporting limit for Aroclor 1254. The associated sample concentrations are "B" qualified.

Project Name: NBHS **Lab Number:** L1113042
Project Number: 115058 **Report Date:** 11/21/11

Case Narrative (continued)

The laboratory duplicate, WG485952-4 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample. The surrogate recoveries for the laboratory duplicate, WG485952-4 are below the acceptance criteria for Tetrachloro-meta-xylene (0%) and Decachlorobiphenyl (0%) due to the dilution required to quantitate the sample.

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: Cynthia McQueen

Title: Technical Director/Representative Date: 11/21/11

ORGANICS

PCBS

Project Name: NBHS **Lab Number:** L1113042

Project Number: 115058 **Report Date:** 11/21/11

SAMPLE RESULTS

Lab ID:	L1113042-01	Date Collected:	08/22/11 11:30
Client ID:	MW-27R	Date Received:	08/22/11
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Oil	Extraction Method:	EPA 3580A
Analytical Method:	1,8082	Extraction Date:	08/23/11 10:51
Analytical Date:	08/23/11 15:47		
Analyst:	JW		
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab						
Aroclor 1016	ND		mg/kg	3810	--	2000
Aroclor 1221	ND		mg/kg	3810	--	2000
Aroclor 1232	ND		mg/kg	3810	--	2000
Aroclor 1242	ND		mg/kg	3810	--	2000
Aroclor 1248	ND		mg/kg	3810	--	2000
Aroclor 1254	246000	B	mg/kg	3810	--	2000
Aroclor 1260	ND		mg/kg	3810	--	2000
Aroclor 1262	ND		mg/kg	3810	--	2000
Aroclor 1268	ND		mg/kg	3810	--	2000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150
Tetrachloro-meta-Xylene	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	30-150

Project Name: NBHS
Project Number: 115058

Lab Number: L1113042
Report Date: 11/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/23/11 19:20
Analyst: JW

Extraction Method: EPA 3580A
Extraction Date: 08/23/11 10:51

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01 Batch: WG485952-1					
Aroclor 1016	ND		mg/kg	2.00	--
Aroclor 1221	ND		mg/kg	2.00	--
Aroclor 1232	ND		mg/kg	2.00	--
Aroclor 1242	ND		mg/kg	2.00	--
Aroclor 1248	ND		mg/kg	2.00	--
Aroclor 1260	ND		mg/kg	2.00	--
Aroclor 1262	ND		mg/kg	2.00	--
Aroclor 1268	ND		mg/kg	2.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	102		30-150
Decachlorobiphenyl	91		30-150
Tetrachloro-meta-Xylene	112		30-150
Decachlorobiphenyl	100		30-150

Project Name: NBHS
Project Number: 115058

Lab Number: L1113042
Report Date: 11/21/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 08/23/11 19:20
Analyst: JW

Extraction Method: EPA 3580A
Extraction Date: 08/23/11 10:51

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01 Batch: WG485952-1					
Aroclor 1254	50.3		mg/kg	2.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	102		30-150
Decachlorobiphenyl	91		30-150
Tetrachloro-meta-Xylene	112		30-150
Decachlorobiphenyl	100		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NBHS

Project Number: 115058

Lab Number: L1113042

Report Date: 11/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01 Batch: WG485952-2 WG485952-3								
Aroclor 1016	79		81		40-140	3		50
Aroclor 1260	97		98		40-140	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Tetrachloro-meta-Xylene	102		103		30-150
Decachlorobiphenyl	90		91		30-150
Tetrachloro-meta-Xylene	109		111		30-150
Decachlorobiphenyl	95		96		30-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1113042
Report Date: 11/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG485952-4 QC Sample: L1113042-01 Client ID: MW-27R						
Aroclor 1016	ND	ND	mg/kg	NC		50
Aroclor 1221	ND	ND	mg/kg	NC		50
Aroclor 1232	ND	ND	mg/kg	NC		50
Aroclor 1242	ND	ND	mg/kg	NC		50
Aroclor 1248	ND	ND	mg/kg	NC		50
Aroclor 1254	246000	267000B	mg/kg	8		50
Aroclor 1260	ND	ND	mg/kg	NC		50
Aroclor 1262	ND	ND	mg/kg	NC		50
Aroclor 1268	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	**0**	Q	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	**0**	Q	30-150
Tetrachloro-meta-Xylene	**0**	Q	**0**	Q	30-150
Decachlorobiphenyl	**0**	Q	**0**	Q	30-150

Project Name: NBHS
Project Number: 115058

Lab Number: L1113042
Report Date: 11/21/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113042-01A	Amber 250ml unpreserved	A	N/A	7.9	Y	Absent	A2-PCB-8082(14)

*Values in parentheses indicate holding time in days

Project Name: NBHS **Lab Number:** L1113042

Project Number: 115058 **Report Date:** 11/21/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	NBHS	**Lab Number:**	L1113042
Project Number:	115058	**Report Date:**	11/21/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS **Lab Number:** L1113042
Project Number: 115058 **Report Date:** 11/21/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised September 19, 2011 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, SM2540D, 2540G, , EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9050A, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1113042

Client Information

Client: TRC SOLUTIONS
Address: 650 SUFFOLK ST
LOWELL MA
Phone: 978 970 5600
Fax:
Email: DSULLIVAN@TRCSOLUTIONS.COM
ALGONARD
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS
Project Location: NEW BEDFORD
Project #: 115058
Project Manager: DAVID SULLIVAN
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5DAY Time: 8/29/11

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	TPH FINGERPRINT	VOC FINGERPRINT										Sample Specific Comments	TOTAL # BOTTLES
L1113042-1	MW-27R	8/22	11:30	GW/O	JF	✓	✓	✓										ISOLATE & SAMPLE NAPL ONLY	1
Container Type						A	A	A											
Preservative						–	–	–											

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
Jason C. Fuis	8/22 17:00	[signature]	8/22/11 1700

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

ANALYTICAL REPORT

Lab Number:	L1113052
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	NBHS
Project Number:	115058
Report Date:	09/01/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NBHS
Project Number: 115058

Lab Number: L1113052
Report Date: 09/01/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113052-01	MW-27R	NEW BEDFORD	08/22/11 11:30

Project Name: NBHS **Lab Number:** L1113052
Project Number: 115058 **Report Date:** 09/01/11

Case Narrative

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

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

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

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

Report Submission

All analyses were performed according to the Alpha Analytical quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. All soil/sediment results are reported on a dry weight basis unless otherwise noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Alpha Analytical certifies that the test results within meet all of the requirements of NELAC, for all NELAC accredited parameters.

Total Petroleum Hydrocarbons (TPH) by GC/FID

Project Name: NBHS **Lab Number:** L1113052
Project Number: 115058 **Report Date:** 09/01/11

Case Narrative (continued)

The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample is conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 45 reference standards are also utilized to provide the best possible sample match. Quantitative determination of the sample hydrocarbon concentration is performed in accordance with EPA Method 8015M. The sample total hydrocarbon concentration and all associated quality control data are included in the report.

The surrogate recovery for L1113052-01 is outside the individual acceptance criteria for d50-Tetracosane (137%) due to matrix interference. Secondary extraction surrogate Ortho-Terphenyl is within accpetable limits attesting to batch precision.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

Total Petroleum Hydrocarbon Identification
Sample MW-27R (L1113052-01) contains hydrocarbons eluting in the lubricating oil range.

Based on the data generated sample MW-27R (L1113052-01) contains material eluting in the mid to late molecular weight range of the chromatogram. Sample contains non-target matrix interference in the mid range of the chromatogram similar in character to polychlorinated biphenyls (PCB¿s).

Project Name: NBHS
Project Number: 115058

Lab Number: L1113052
Report Date: 09/01/11

Case Narrative (continued)

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: Peter Henriksen

Title: Technical Director/Representative

Date: 09/01/11

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: NBHS **Lab Number:** L1113052

Project Number: 115058 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113052-01	Date Collected:	08/22/11 11:30
Client ID:	MW-27R	Date Received:	08/22/11
Sample Location:	NEW BEDFORD	Field Prep:	Not Specified
Matrix:	Oil	Extraction Method:	EPA 3580A
Analytical Method:	1,8015D(M)	Extraction Date:	08/25/11 10:35
Analytical Date:	08/29/11 18:32		
Analyst:	NP		
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	466000		mg/kg	3940	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	101		50-130
d50-Tetracosane	**137**	Q	50-130

Project Name: NBHS
Project Number: 115058

Lab Number: L1113052
Report Date: 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/29/11 11:07
Analyst: NP

Extraction Method: EPA 3580A
Extraction Date: 08/25/11 10:35

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01 Batch: WG486413-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	6600	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	99		50-130
d50-Tetracosane	100		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058

Lab Number: L1113052
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01 Batch: WG486413-2 WG486413-3								
Nonane (C9)	88		89		50-130	1		30
Decane (C10)	86		87		50-130	1		30
Dodecane (C12)	89		89		50-130	0		30
Tetradecane (C14)	91		92		50-130	1		30
Hexadecane (C16)	94		95		50-130	1		30
Octadecane (C18)	106		106		50-130	0		30
Nonadecane (C19)	96		96		50-130	0		30
Eicosane (C20)	96		96		50-130	0		30
Docosane (C22)	98		98		50-130	0		30
Tetracosane (C24)	99		99		50-130	0		30
Hexacosane (C26)	100		100		50-130	0		30
Octacosane (C28)	102		101		50-130	1		30
Triacontane (C30)	99		99		50-130	0		30
Hexatriacontane (C36)	101		99		50-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	99		98		50-130
d50-Tetracosane	100		99		50-130

Project Name: NBHS
Project Number: 115058

Lab Number: L1113052
Report Date: 09/01/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113052-01A	Amber 250ml unpreserved	A	N/A	7.9	Y	Absent	A2-PHI(365)

*Values in parentheses indicate holding time in days

Project Name: NBHS **Lab Number:** L1113052

Project Number: 115058 **Report Date:** 09/01/11

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: NBHS **Lab Number:** L1113052

Project Number: 115058 **Report Date:** 09/01/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: NBHS **Lab Number:** L1113052
Project Number: 115058 **Report Date:** 09/01/11

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 4, 2011 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA, 245.1, 245.7, 1631E, 180.1, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081, 8082, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7470A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, SM2540D, 2540G, , EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9050A, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

Serial_No:09011118:50

L1113052

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: ~~L1113042~~ M

Client Information

Client: TRC SOLUTIONS

Address: 650 SUFFOLK ST
LOWELL MA

Phone: 978 970 5600

Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM
ALEONARD

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS

Project Location: NEW BEDFORD

Project #: 115058

Project Manager: DAVID SULLIVAN

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5DAY Time: 8/29/11

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs	TPH FINGERPRINT	VOC FINGERPRINT	Sample Specific Comments (SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below))	TOTAL # BOTTLES
~~L1113042-1~~ L1113052-1	MW-27R	8/22	11:30	GW/O	JF	✓	✓	✓	ISOLATE & SAMPLE NAPL ONLY	1

Container Type	A	A	A
Preservative	–	–	–

Relinquished By:	Date/Time	Received By:	Date/Time
Jason C. Fuis	8/22 17:00	[illegible]	8/22/11 1700

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Date: September 12, 2011-E

NEA PACE Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058 NBHS PCB SAMPLING
Sampling Date(s): August 24, 2011, August 25, 2011
NEA Report ID: 11080601
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis (Water)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of NEA - A Division of Pace Analytical Services, Inc.

Robert E. Wagner
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

NEA - A Division of Pace Analytical Services| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.nealab.com | Email: information@nealab.com

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Table of Contents

Section 1: CASE NARRATIVE 4

Section 2: SAMPLE CHAIN OF CUSTODY 7

Section 3: INTERNAL SAMPLE TRACKING RECORD 9

Section 4: SURROGATE % RECOVERY SUMMARY 12

Section 5: MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY 14

Section 6: LABORATORY CONTROL SPIKE SUMMARY 17

Section 7: METHOD BLANK SUMMARY 20

Section 8: SAMPLE ANALYSIS DATA 23

Section 9: ANALYTICAL SEQUENCE (GC23F) 49

Section 10: INITIAL CALIBRATION DATA (GC23F) 52

Section 11: INITIAL/CONTINUING CALIBRATION DATA (GC23F) 55

Section 12: ANALYTICAL SEQUENCE (GC23B) 60

Section 13: INITIAL CALIBRATION DATA (GC23B) 63

Section 14: INITIAL/CONTINUING CALIBRATION DATA (GC23B) 66

Section 15: QC SAMPLE RAW DATA 71

CASE NARRATIVE

September 12, 2011

CASE NARRATIVE

This data package (SDG ID: 11080601) consists of 9 water samples received on 08/26/2011. The samples are from Project Name: 115058 NBHS PCB SAMPLING.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AO17002	MW-33	08/24/2011 12:45
AO17003	MW-31	08/24/2011 13:00
AO17004	MW-5D	08/24/2011 16:40
AO17005	MW-5	08/24/2011 17:00
AO17006	MW-32	08/25/2011 15:20
AO17007	MW-28	08/25/2011 12:35
AO17008	MW-27R	08/25/2011 14:50
AO17009	DUP-1	08/25/2011
AO17010	MW-27D	08/25/2011 13:00

1

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 08/26/2011.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperatures were recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 2.0, 1.9 degrees Celsius.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Continuous Liquid/Liquid Extraction (EPA - Method 3520C). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

(2.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

(3.) The concentration result for Aroclor 1248 was flagged (PE) to denote that Aroclor 1248 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1248 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

(4.) The surrogates DCBP and TCMX were diluted out for several samples (LAB ID: AO17007, AO17008, and AO17009) due to the high concentration of PCB in the samples. Please see associated Form 2 for details.

(5.) Samples (LAB ID: AO17007, AO17008, AO17009 and AO17010) were re-analyzed at a secondary dilution to bring all target analyte concentrations within the calibration range of the instrument. Results for the re-analysis are provided with RR1 sample ID suffix.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

S:\Lims Data\1108\11080601\Package\CN_11080601_Rev00.doc

Respectfully submitted,

William A. Kotas
Client Services Manager

1

S:\Lims Data\1108\11080601\Package\CN_11080601_Rev00.doc

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<11080601P1>

110806011

Page: 1 of 1

1513316

Section A Required Client Information:

Company: TRC
Address: 650 Suffolk St, Lowell MA 01854
Email To: dsullivan@trcsolutions.com
Phone: 978 656.3503 Fax:
Requested Due Date/TAT: 5 Day TAT

Section B Required Project Information:

Report To: David Sullivan
Copy To: Jeff Saunders
Purchase Order No.: 36323
Project Name: NBHS
Project Number: 115058.000850.000008

Section C Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MA GW-2/GW-3

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): PCBs (8082)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-33	WT	G	8/24/11	1245				2	X								X		A017002
2	MW-31	WT	G	8/24/11	1300				2	X								X		A017003
3	MW-5D	WT	G	8/24/11	1640				4	X								X		A017004
4	MW-5	WT	G	8/24/11	1700				2	X								X		A017005
5	MW-32	WT	G	8/25/11	1520				2	X								X		A017006
6	MW-28	WT	G	8/25/11	1235				2	X								X		A017007
7	MW-~~27D~~ 27R EW 8/25/11	WT	G	8/25/11	1450				2	X								X		A017008
8	DUP-1	WT	G	8/25/11	—				2	X								X		A017009
9	MW-27D				1300				2											A017010
10																				
11																				
12																				

* MS/MSD here

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Emilie Wachtel	8/25/11	1630	FedEx			2.0°C Y Y Y
	Shipped via FedEx			K Houghtelin PACE	8/26/11	9:16	1.9°C

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emilie Wachtel + John McRobbie

SIGNATURE of SAMPLER: Emilie Wachtel DATE Signed (MM/DD/YY): 8/25/2011

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Attendant Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG

Pace Analytical®

Prep Date: 08/27/11 **Batch ID: 15308**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florisil Shake (MM/DD)	Date Hg Shake (MM/DD)	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
														Initial for required Clean Up Steps						
														DGN		DGN	DGN			
1	146841	PBLK-82	AO17004B	Water	5	E PCB W	CLLE	N/A	1000	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
2	146840	LCS-82	AO17004L	Water	5	E PCB W	CLLE	N/A	1000	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
3	146831	11080601-03MS	AO17004M	Water	6	E PCB W	CLLE	N/A	1080	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
4	146832	11080601-03MSD	AO17004K	Water	6	E PCB W	CLLE	N/A	1080	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
5	146829	11080601-01	AO17002	Water	6	E PCB W	CLLE	N/A	1080	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
6	146830	11080601-02	AO17003	Water	6	E PCB W	CLLE	N/A	1080	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
7	146833	11080601-03	AO17004	Water	6	E PCB W	CLLE	N/A	1080	07:25	09:25	NA	NA	08/27	NA	08/27	08/27	10	08/27	
8	146834	11080601-04	AO17005	Water	6	E PCB W	CLLE	N/A	960	16:30	18:30	NA	NA	08/27	NA	08/27	08/27	10	08/27	
9	146835	11080601-05	AO17006	Water	6	E PCB W	CLLE	N/A	1080	16:30	18:30	NA	NA	08/27	NA	08/27	08/27	10	08/27	
10	146836	11080601-06	AO17007	Water	6	E PCB W	CLLE	N/A	910	16:30	18:30	NA	NA	08/27	NA	08/27	08/27	10	08/27	
11	146837	11080601-07	AO17008	Water	6	E PCB W	CLLE	N/A	1080	16:30	18:30	NA	NA	08/27	NA	08/27	08/27	10	08/27	
12	146838	11080601-08	AO17009	Water	6	E PCB W	CLLE	N/A	1080	16:30	18:30	NA	NA	08/27	NA	08/27	08/27	10	08/27	
13	146839	11080601-09	AO17010	Water	6	E PCB W	CLLE	N/A	1035	16:30	18:30	NA	NA	08/27	NA	08/27	08/27	10	08/27	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Toluene	050254	NA		☑	☑	☐	☑	☐	☑	☑
Sulfuric Acid (Water Lab)	E49039	NA		☑	☑	☐	☑	☐	☑	☑
Dichloromethane	DE167	NA		☑	☑	☐	☑	☐	☑	☑
10% Florisil (water lab)	052711F	NA		☑	☑	☐	☑	☐	☑	☑
0.05ppm TCMX/ 0.5ppm DCBP in Hexan	062811B30P157C	1000	0.05/0.5	☑	☑	☐	☑	☐	☑	☑
Mercury (CURRENT)	062111Hg	NA		☑	☑	☐	☑	☐	☑	☑
A1242 @ 0.5ppm in Hexane	080511B031P017A	1000	0.5	☐	☑	☐	☐	☐	☑	☑
Hexane (Dewar)(CURRENT)	DE663B	NA		☑	☑	☐	☑	☐	☑	☑

Analyst Review: David G. Nally
David Nally

Peer Review: Jillian L Grygas
Jill Grygas

Print Date: 9/12/2011
Lims Version : 5.0.5.8
_EXT - LOGBOOK_GC-SV; Rev 02; 1.18.2010; EXTRACTION

3

PCB SCREEN SHEET

LRF: 11080601 **Batch ID:15308**

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AO17004B	GC23F-709-1	Water	**08/27/11**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-1	Water	**08/27/11**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
AO17004L	GC23F-709-2	Water	**08/27/11**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-2	Water	**08/27/11**	1000	10	NA	NA	1	NA	10x	Anthony Maiello
AO17004M	GC23F-709-6	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-6	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AO17004K	GC23F-709-7	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-7	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AO17002	GC23F-709-3	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-3	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AO17003	GC23F-709-4	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-4	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AO17004	GC23F-709-5	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-5	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AO17005	GC23F-709-8	Water	**08/27/11**	960	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-8	Water	**08/27/11**	960	10	NA	NA	1	NA	10x	Anthony Maiello
AO17006	GC23F-709-9	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
	GC23B-708-9	Water	**08/27/11**	1080	10	NA	NA	1	NA	10x	Anthony Maiello
AO17007RR1	GC23B-709-4	Water	**08/27/11**	910	10	NA	NA	20	1>10 2>4	200x	Anthony Maiello
	GC23F-710-4	Water	**08/27/11**	910	10	NA	NA	20	1>10 2>4	200x	Anthony Maiello
AO17008RR1	GC23B-709-5	Water	**08/27/11**	1080	10	NA	NA	50	1>10 1>5	500x	Anthony Maiello
	GC23F-710-5	Water	**08/27/11**	1080	10	NA	NA	50	1>10 1>5	500x	Anthony Maiello
AO17009RR1	GC23B-709-6	Water	**08/27/11**	1080	10	NA	NA	60	1>10 1>6	600x	Anthony Maiello
	GC23F-710-6	Water	**08/27/11**	1080	10	NA	NA	60	1>10 1>6	600x	Anthony Maiello
AO17010RR1	GC23B-709-7	Water	**08/27/11**	1035	10	NA	NA	3	1>3	30x	Anthony Maiello
	GC23F-710-7	Water	**08/27/11**	1035	10	NA	NA	3	1>3	30x	Anthony Maiello

3

COMMENTS: _____

Page 1 of 1

Print Date: 9/3/2011
Lims Version : 5.0.5.8
_EXT-INJSHEET_NL; Rev 00; 09.29.2010; EXTRACTION

SURROGATE % RECOVERY SUMMARY

4

2E-1
PCB SURROGATE RECOVERY

Laboratory Name: NEA - A Division of PACE SDG: 11080601

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-82	AO17004B	GC23F-709-1	114	104					0
PBLK-82	AO17004B	GC23B-708-1			94.5	106			0
LCS-82	AO17004L	GC23F-709-2	103	107					0
LCS-82	AO17004L	GC23B-708-2			97.2	110			0
11080601-01	AO17002	GC23F-709-3	92.8	107					0
11080601-01	AO17002	GC23B-708-3			94.2	109			0
11080601-02	AO17003	GC23F-709-4	92.4	105					0
11080601-02	AO17003	GC23B-708-4			94.2	107			0
11080601-03	AO17004	GC23F-709-5	93.9	103					0
11080601-03	AO17004	GC23B-708-5			96.1	106			0
11080601-04	AO17005	GC23F-709-8	94.8	104					0
11080601-04	AO17005	GC23B-708-8			97.3	108			0
11080601-05	AO17006	GC23F-709-9	96.7	108					0
11080601-05	AO17006	GC23B-708-9			99.5	109			0
11080601-06RR1	AO17007RR1	GC23F-710-4	107 D	78.9 D					0
11080601-06RR1	AO17007RR1	GC23B-709-4			124 D	108 D			0
11080601-07RR1	AO17008RR1	GC23F-710-5	130 D	66.3 D					0
11080601-07RR1	AO17008RR1	GC23B-709-5			154 D	134 D			0
11080601-08RR1	AO17009RR1	GC23F-710-6	115 D	27.9 D					0
11080601-08RR1	AO17009RR1	GC23B-709-6			163 D	146 D			0
11080601-09RR1	AO17010RR1	GC23F-710-7	98.6	98.5					0
11080601-09RR1	AO17010RR1	GC23B-709-7			98.3	105			0
11080601-03MS	AO17004M	GC23F-709-6	102	108					0
11080601-03MS	AO17004M	GC23B-708-6			99.0	108			0
11080601-03MSD	AO17004K	GC23F-709-7	95.8	103					0
11080601-03MSD	AO17004K	GC23B-708-7			98.0	108			0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(60.0-140)
SURR2 = DECACHLOROBIPHENYL	(60.0-140)

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

5

3F-1
MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078 SDG No: 11080601

MS LRF ID: 11080601-03MS MSD LRF ID: 11080601-03MSD Sample LRF ID: 11080601-03

MS Lab File ID: GC23F-709-6 MSD Lab File ID: GC23F-709-7 Sample File ID: GC23F-709-5

MS Sample Inj Date: 09/02/2011 06:51:27 MSD Sample Inj Date: 09/02/2011 07:24:04 Sample Inj Date: 09/02/2011 06:18:50

MS Lab Sample ID: AO17004M MSD Lab Sample ID: AO17004K Sample ID: AO17004

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.463	0.00	0.485	105	(70.0-130)

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
Aroclor 1242	0.463	0.471	102	2.90	20	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

Form III-CLP

Lims Version : 5.0.5.8

3F-1
MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078 SDG No: 11080601

MS LRF ID: 11080601-03MS MSD LRF ID: 11080601-03MSD Sample LRF ID: 11080601-03

MS Lab File ID: GC23B-708-6 MSD Lab File ID: GC23B-708-7 Sample File ID: GC23B-708-5

MS Sample Inj Date: 09/02/2011 06:51:31 MSD Sample Inj Date: 09/02/2011 07:24:08 Sample Inj Date: 09/02/2011 06:18:54

MS Lab Sample ID: AO17004M MSD Lab Sample ID: AO17004K Sample ID: AO17004

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.463	0.00	0.494	107	(70.0-130)

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
Aroclor 1242	0.463	0.498	107	0.00	20	(70.0-130)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 2 outside limits.

RPD: 0 out of 1 outside limits.

COMMENTS:

Form III-CLP

Lims Version : 5.0.5.8

LABORATORY CONTROL SPIKE SUMMARY

6

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11080601

LCS Lab ID: LCS-82

Blank Sample ID: PBLK-82

LCS File ID: GC23B-708-2

Method Blank File ID: GC23B-708-1

LCS Inj Date: 09/02/2011 04:41:05

Method Blank Inj Date: 09/02/2011 04:08:30

LCS ID: AO17004L

Method Blank ID: AO17004B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.515	103	70.0-130

Column to be used to flag recovery values

[1]QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

6

COMMENTS:

Form III-CLP-PCB (NEA-PAC

Lims Version : 5.0.5.8

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11080601

LCS Lab ID: LCS-82

Blank Sample ID: PBLK-82

LCS File ID: GC23F-709-2

Method Blank File ID: GC23F-709-1

LCS Inj Date: 09/02/2011 04:41:00

Method Blank Inj Date: 09/02/2011 04:08:26

LCS ID: AO17004L

Method Blank ID: AO17004B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
Aroclor 1242	0.500	0.504	101	70.0-130

Column to be used to flag recovery values

[1]QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

6

COMMENTS:

Form III-CLP-PCB (NEA-PAC

Lims Version : 5.0.5.8

METHOD BLANK SUMMARY

7

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Blank Sample ID:	PBLK-82
Matrix:	Water	Method Blank Nea ID No:	AO17004B
Instrument ID:	GC23F	Lab File ID:	GC23F-709-1
Extraction Type:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
GC Column (1):	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	09/02/2011
		Time Analyzed:	04:08:26

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-82(LAB CONTROL SPIKE)	AO17004L	GC23F-709-2	09/02/2011 04:41:00
MW-33	AO17002	GC23F-709-3	09/02/2011 05:13:35
MW-31	AO17003	GC23F-709-4	09/02/2011 05:46:12
MW-5D	AO17004	GC23F-709-5	09/02/2011 06:18:50
MW-5D MS	AO17004M	GC23F-709-6	09/02/2011 06:51:27
MW-5D MSD	AO17004K	GC23F-709-7	09/02/2011 07:24:04
MW-5	AO17005	GC23F-709-8	09/02/2011 07:56:39
MW-32	AO17006	GC23F-709-9	09/02/2011 08:29:15
MW-28	AO17007RR1	GC23F-710-4	09/02/2011 19:24:57
MW-27R	AO17008RR1	GC23F-710-5	09/02/2011 19:57:39
DUP-1	AO17009RR1	GC23F-710-6	09/02/2011 20:30:17
MW-27D	AO17010RR1	GC23F-710-7	09/02/2011 21:02:52

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Blank Sample ID:	PBLK-82
Matrix:	Water	Method Blank Nea ID No:	AO17004B
Instrument ID:	GC23B	Lab File ID:	GC23B-708-1
Extraction Type:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
GC Column (1):	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	09/02/2011
		Time Analyzed:	04:08:30

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-82(LAB CONTROL SPIKE)	AO17004L	GC23B-708-2	09/02/2011 04:41:05
MW-33	AO17002	GC23B-708-3	09/02/2011 05:13:40
MW-31	AO17003	GC23B-708-4	09/02/2011 05:46:16
MW-5D	AO17004	GC23B-708-5	09/02/2011 06:18:54
MW-5D MS	AO17004M	GC23B-708-6	09/02/2011 06:51:31
MW-5D MSD	AO17004K	GC23B-708-7	09/02/2011 07:24:08
MW-5	AO17005	GC23B-708-8	09/02/2011 07:56:44
MW-32	AO17006	GC23B-708-9	09/02/2011 08:29:19
MW-28	AO17007RR1	GC23B-709-4	09/02/2011 19:25:01
MW-27R	AO17008RR1	GC23B-709-5	09/02/2011 19:57:43
DUP-1	AO17009RR1	GC23B-709-6	09/02/2011 20:30:21
MW-27D	AO17010RR1	GC23B-709-7	09/02/2011 21:02:57

SAMPLE ANALYSIS DATA

8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-01
Matrix:	Water	Client ID:	MW-33
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17002
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-708-3

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-709-3

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0630	AF
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-33
LRF Sample ID:	11080601-01	Lab Sample ID:	AO17002
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 5:13:40 AM	Date Analyzed:	09/02/2011 5:13:35 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-708-3	Lab File ID 2:	GC23F-709-3
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.16	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.61	9.50	9.66			
	2	1	7.83	7.73	7.89			
		2	8.21	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.18	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.16	9.10	9.26			
		4	9.40	9.32	9.48			
		5	9.61	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.21	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.18	9.12	9.28			
Aroclor 1242	1	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.16	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.61	9.50	9.66			
	2	1	7.83	7.73	7.89			
		2	8.21	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.18	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-33
LRF Sample ID:	11080601-01	Lab Sample ID:	AO17002
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 5:13:40 AM	Date Analyzed:	09/02/2011 5:13:35 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-708-3	Lab File ID 2:	GC23F-709-3
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.11	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.46	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.14	12.05	12.21			
	2	1	9.79	9.70	9.86			
		2	10.44	10.37	10.53			
		3	11.08	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.66	11.59	11.75			
Aroclor 1254	1	1	12.32	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.87	14.78	14.94			
		5	15.73	15.65	15.81	0.0630		
	2	1	11.99	11.91	12.07			
		2	12.66	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.25	15.17	15.33	0.0542	15.0	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-02
Matrix:	Water	Client ID:	MW-31
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17003
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-708-4

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-709-4

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0685	AF
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-31
LRF Sample ID:	11080601-02	Lab Sample ID:	AO17003
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 5:46:16 AM	Date Analyzed:	09/02/2011 5:46:12 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-708-4	Lab File ID 2:	GC23F-709-4
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.13	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.18	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.59	9.50	9.66			
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.86	8.76	8.92			
		4	9.07	8.98	9.14			
		5	9.18	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.57	8.49	8.65			
		3	9.18	9.10	9.26			
		4	9.41	9.32	9.48			
		5	9.59	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.86	8.76	8.92			
		4	9.07	8.98	9.14			
		5	9.18	9.12	9.28			
Aroclor 1242	1	1	8.13	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.18	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.59	9.50	9.66			
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.86	8.76	8.92			
		4	9.07	8.97	9.13			
		5	9.18	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-31
LRF Sample ID:	11080601-02	Lab Sample ID:	AO17003
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 5:46:16 AM	Date Analyzed:	09/02/2011 5:46:12 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-708-4	Lab File ID 2:	GC23F-709-4
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.11	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.44	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.14	12.05	12.21			
	2	1	9.79	9.70	9.86			
		2	10.44	10.37	10.53			
		3	11.09	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.68	11.59	11.75			
Aroclor 1254	1	1	12.32	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.86	14.78	14.94			
		5	15.73	15.65	15.81	0.0685		
	2	1	11.99	11.91	12.07			
		2	12.66	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.25	15.17	15.33	0.0660	3.72	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-03
Matrix:	Water	Client ID:	MW-5D
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17004
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-709-5

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-708-5

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0500	U
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-04
Matrix:	Water	Client ID:	MW-5
Sample wt(Dry)/vol:	960 mL	Lab Sample ID:	AO17005
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-709-8

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-708-8

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0521	U
1	11104-28-2	Aroclor 1221	0.0521	U
1	11141-16-5	Aroclor 1232	0.0521	U
1	53469-21-9	Aroclor 1242	0.0521	U
1	12672-29-6	Aroclor 1248	0.129	PE
1	11097-69-1	Aroclor 1254	0.0521	U
1	11096-82-5	Aroclor 1260	0.0521	U

Laboratory Qualifiers:
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-5
LRF Sample ID:	11080601-04	Lab Sample ID:	AO17005
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 7:56:39 AM	Date Analyzed:	09/02/2011 7:56:44 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-8	Lab File ID 2:	GC23B-708-8
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.85	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.18	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.61	9.50	9.66			
Aroclor 1221	1	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
Aroclor 1232	1	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.85	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.18	9.10	9.26			
		4	9.41	9.32	9.48			
		5	9.61	9.51	9.67			
Aroclor 1242	1	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.85	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28			
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.18	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.61	9.50	9.66			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-5
LRF Sample ID:	11080601-04	Lab Sample ID:	AO17005
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 7:56:39 AM	Date Analyzed:	09/02/2011 7:56:44 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-8	Lab File ID 2:	GC23B-708-8
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	9.78	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.10	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.70	11.59	11.75	0.129		
	2	1	10.11	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.45	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.14	12.05	12.21	0.127	1.56	
Aroclor 1254	1	1	11.99	11.91	12.07			
		2	12.65	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.42	14.34	14.50			
		5	15.25	15.17	15.33			
	2	1	12.31	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.85	14.78	14.94			
		5	15.72	15.65	15.81			
Aroclor 1260	1	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			
	2	1	15.72	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-05
Matrix:	Water	Client ID:	MW-32
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17006
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-708-9

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-709-9

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.121	AF
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-32
LRF Sample ID:	11080601-05	Lab Sample ID:	AO17006
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 8:29:19 AM	Date Analyzed:	09/02/2011 8:29:15 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-708-9	Lab File ID 2:	GC23F-709-9
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.14	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.42	9.32	9.48			
		5	9.59	9.50	9.66			
	2	1	7.81	7.73	7.89			
		2	8.21	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.19	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.42	9.32	9.48			
		5	9.59	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.21	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.19	9.12	9.28			
Aroclor 1242	1	1	8.14	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.42	9.32	9.48			
		5	9.59	9.50	9.66			
	2	1	7.81	7.73	7.89			
		2	8.21	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.19	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-32
LRF Sample ID:	11080601-05	Lab Sample ID:	AO17006
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 8:29:19 AM	Date Analyzed:	09/02/2011 8:29:15 AM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-708-9	Lab File ID 2:	GC23F-709-9
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.11	10.03	10.19			
		2	10.85	10.76	10.92			
		3	11.47	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.16	12.05	12.21			
	2	1	9.78	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.09	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.66	11.59	11.75			
Aroclor 1254	1	1	12.32	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.39	13.30	13.46			
		4	14.87	14.78	14.94			
		5	15.73	15.65	15.81	0.121		
	2	1	11.99	11.91	12.07			
		2	12.66	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.26	15.17	15.33	0.109	10.4	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.26	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-06RR1
Matrix:	Water	Client ID:	MW-28
Sample wt(Dry)/vol:	910 mL	Lab Sample ID:	AO17007RR1
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	20
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-709-4

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-710-4

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	1.10	U
1	11104-28-2	Aroclor 1221	1.10	U
1	11141-16-5	Aroclor 1232	1.10	U
1	53469-21-9	Aroclor 1242	3.98	AD
1	12672-29-6	Aroclor 1248	1.10	U
1	11097-69-1	Aroclor 1254	10.9	AF
1	11096-82-5	Aroclor 1260	1.10	U

Laboratory Qualifiers:
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
Note: There were several non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-28
LRF Sample ID:	11080601-06RR1	Lab Sample ID:	AO17007RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 7:25:01 PM	Date Analyzed:	09/02/2011 7:24:57 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-4	Lab File ID 2:	GC23F-710-4
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.15	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.59	9.50	9.66			
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.07	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.57	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.41	9.32	9.48			
		5	9.59	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.07	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1242	1	1	8.15	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.59	9.50	9.66	3.98		
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.07	8.97	9.13			
		5	9.20	9.12	9.28	3.67	8.10	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-28
LRF Sample ID:	11080601-06RR1	Lab Sample ID:	AO17007RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 7:25:01 PM	Date Analyzed:	09/02/2011 7:24:57 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-4	Lab File ID 2:	GC23F-710-4
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.11	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.46	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.15	12.05	12.21			
	2	1	9.79	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.10	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.67	11.59	11.75			
Aroclor 1254	1	1	12.32	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.86	14.78	14.94			
		5	15.73	15.65	15.81	10.9		
	2	1	11.99	11.91	12.07			
		2	12.65	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.25	15.17	15.33	10.7	1.85	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-07RR1
Matrix:	Water	Client ID:	MW-27R
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17008RR1
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	50
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-709-5

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-710-5

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	2.50	U
1	11104-28-2	Aroclor 1221	2.50	U
1	11141-16-5	Aroclor 1232	2.50	U
1	53469-21-9	Aroclor 1242	7.62	AD
1	12672-29-6	Aroclor 1248	2.50	U
1	11097-69-1	Aroclor 1254	30.0	AF
1	11096-82-5	Aroclor 1260	2.50	U

Laboratory Qualifiers:
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
Note: There were several non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-27R
LRF Sample ID:	11080601-07RR1	Lab Sample ID:	AO17008RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 7:57:43 PM	Date Analyzed:	09/02/2011 7:57:39 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-5	Lab File ID 2:	GC23F-710-5
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.16	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.14	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.58	9.50	9.66			
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.81	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.57	8.49	8.65			
		3	9.14	9.10	9.26			
		4	9.41	9.32	9.48			
		5	9.58	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.81	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1242	1	1	8.16	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.14	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.58	9.50	9.66	7.62		
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.81	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28	7.37	3.34	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-27R
LRF Sample ID:	11080601-07RR1	Lab Sample ID:	AO17008RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 7:57:43 PM	Date Analyzed:	09/02/2011 7:57:39 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-5	Lab File ID 2:	GC23F-710-5
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.11	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.46	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.15	12.05	12.21			
	2	1	9.79	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.10	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.67	11.59	11.75			
Aroclor 1254	1	1	12.32	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.86	14.78	14.94			
		5	15.73	15.65	15.81	30.0		
	2	1	11.99	11.91	12.07			
		2	12.65	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.25	15.17	15.33	29.4	2.02	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-08RR1
Matrix:	Water	Client ID:	DUP-1
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17009RR1
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	60
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-709-6

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-710-6

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	3.00	U
1	11104-28-2	Aroclor 1221	3.00	U
1	11141-16-5	Aroclor 1232	3.00	U
1	53469-21-9	Aroclor 1242	7.52	AD
1	12672-29-6	Aroclor 1248	3.00	U
1	11097-69-1	Aroclor 1254	33.8	AF
1	11096-82-5	Aroclor 1260	3.00	U

Laboratory Qualifiers:
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
Note: There were several non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	DUP-1
LRF Sample ID:	11080601-08RR1	Lab Sample ID:	AO17009RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 8:30:21 PM	Date Analyzed:	09/02/2011 8:30:17 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-6	Lab File ID 2:	GC23F-710-6
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.15	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66			
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.15	9.10	9.26			
		4	9.40	9.32	9.48			
		5	9.58	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1242	1	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.15	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66	7.52		
	2	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28	7.19	4.49	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	DUP-1
LRF Sample ID:	11080601-08RR1	Lab Sample ID:	AO17009RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 8:30:21 PM	Date Analyzed:	09/02/2011 8:30:17 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-6	Lab File ID 2:	GC23F-710-6
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.11	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.46	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.15	12.05	12.21			
	2	1	9.79	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.10	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.67	11.59	11.75			
Aroclor 1254	1	1	12.32	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.86	14.78	14.94			
		5	15.73	15.65	15.81	33.8		
	2	1	11.99	11.91	12.07			
		2	12.65	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.25	15.17	15.33	32.1	5.16	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-09RR1
Matrix:	Water	Client ID:	MW-27D
Sample wt(Dry)/vol:	1035 mL	Lab Sample ID:	AO17010RR1
Percent Moisture:	100	Date Received:	08/26/2011
Extraction:	Continuous Liquid-Liquid Extraction	Date Extracted:	08/27/2011
Conc. Extract Volume:	10000 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	3
		Sulfur Cleanup:	YES

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23B-709-7

Column 2 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

Injection Volume: 1.0 uL

Lab File ID: GC23F-710-7

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.150	U
1	11104-28-2	Aroclor 1221	0.150	U
1	11141-16-5	Aroclor 1232	0.150	U
1	53469-21-9	Aroclor 1242	0.150	U
1	12672-29-6	Aroclor 1248	0.358	PE
1	11097-69-1	Aroclor 1254	1.20	AF
1	11096-82-5	Aroclor 1260	0.150	U

Laboratory Qualifiers:
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
Note: There were several non-target peaks.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

8

FORM I-CLP-PCB (NEA)

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-27D
LRF Sample ID:	11080601-09RR1	Lab Sample ID:	AO17010RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 9:02:57 PM	Date Analyzed:	09/02/2011 9:02:52 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-7	Lab File ID 2:	GC23F-710-7
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	8.14	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.42	9.32	9.48			
		5	9.58	9.50	9.66			
	2	1	7.83	7.73	7.89			
		2	8.21	8.12	8.28			
		3	8.80	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
	2	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
Aroclor 1232	1	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.42	9.32	9.48			
		5	9.58	9.51	9.67			
	2	1	NA	6.83	6.99			
		2	8.21	8.12	8.28			
		3	8.80	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
Aroclor 1242	1	1	8.14	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.42	9.32	9.48			
		5	9.58	9.50	9.66			
	2	1	7.83	7.73	7.89			
		2	8.21	8.12	8.28			
		3	8.80	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-27D
LRF Sample ID:	11080601-09RR1	Lab Sample ID:	AO17010RR1
Instrument 1 ID:	GC23B	Instrument 2 ID:	GC23F
Date Analyzed:	09/02/2011 9:02:57 PM	Date Analyzed:	09/02/2011 9:02:52 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23B-709-7	Lab File ID 2:	GC23F-710-7
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1248	1	1	10.10	10.03	10.19			
		2	10.84	10.76	10.92			
		3	11.45	11.37	11.53			
		4	11.68	11.58	11.74			
		5	12.15	12.05	12.21	0.358		
	2	1	9.78	9.70	9.86			
		2	10.45	10.37	10.53			
		3	11.09	11.02	11.18			
		4	11.30	11.18	11.34			
		5	11.67	11.59	11.75	0.342	4.57	
Aroclor 1254	1	1	12.31	12.23	12.39			
		2	13.09	13.01	13.17			
		3	13.38	13.30	13.46			
		4	14.86	14.78	14.94			
		5	15.73	15.65	15.81	1.20		
	2	1	11.99	11.91	12.07			
		2	12.65	12.57	12.73			
		3	12.94	12.85	13.01			
		4	14.43	14.34	14.50			
		5	15.25	15.17	15.33	1.15	4.26	
Aroclor 1260	1	1	15.73	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			
	2	1	15.25	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

ANALYTICAL SEQUENCE (GC23F)

9

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: NEA - A Division of PACE SDG No: 11080601

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 08/31/11,09/01/11

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.19 DCBP RT: 26.10

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	083116A	GC23F-708-10	08/31/2011 21:41:59		
02	A1016 10 PPB	083116B	GC23F-708-11	08/31/2011 22:14:35		
03	A1016 20 PPB	083116C	GC23F-708-12	08/31/2011 22:47:10		
04	A1016 50 PPB	083116D	GC23F-708-13	08/31/2011 23:19:46		
05	A1221 5 PPB	083121A	GC23F-708-15	09/01/2011 00:25:06		
06	A1221 10 PPB	083121B	GC23F-708-16	09/01/2011 00:57:48		
07	A1221 20 PPB	083121C	GC23F-708-17	09/01/2011 01:30:23		
08	A1221 50 PPB	083121D	GC23F-708-18	09/01/2011 02:02:58		
09	A1221 100 PPB	083121E	GC23F-708-19	09/01/2011 02:35:35		
10	A1232 5 PPB	083132A	GC23F-708-20	09/01/2011 03:08:13		
11	A1232 10 PPB	083132B	GC23F-708-21	09/01/2011 03:40:48		
12	A1232 20 PPB	083132C	GC23F-708-22	09/01/2011 04:13:23		
13	A1232 50 PPB	083132D	GC23F-708-23	09/01/2011 04:46:00		
14	A1232 100 PPB	083132E	GC23F-708-24	09/01/2011 05:18:37		
15	A1242 5 PPB	083142A	GC23F-708-25	09/01/2011 05:51:13		
16	A1242 10 PPB	083142B	GC23F-708-26	09/01/2011 06:23:48		
17	A1242 20 PPB	083142C	GC23F-708-27	09/01/2011 06:56:24		
18	A1242 50 PPB	083142D	GC23F-708-28	09/01/2011 07:28:59		
19	A1242 100 PPB	083142E	GC23F-708-29	09/01/2011 08:01:42		
20	A1248 5 PPB	083148A	GC23F-708-30	09/01/2011 08:34:17		
21	A1248 10 PPB	083148B	GC23F-708-31	09/01/2011 09:06:53		
22	A1248 20 PPB	083148C	GC23F-708-32	09/01/2011 09:39:30		
23	A1248 50 PPB	083148D	GC23F-708-33	09/01/2011 10:12:06		
24	A1248 100 PPB	083148E	GC23F-708-34	09/01/2011 10:44:42		
25	A1254 5 PPB	083154A	GC23F-708-35	09/01/2011 11:17:18	6.19	26.10
26	A1254 10 PPB	083154B	GC23F-708-36	09/01/2011 11:50:01	6.19	26.09
27	A1254 20 PPB	083154C	GC23F-708-37	09/01/2011 12:22:43	6.19	26.10
28	A1254 50 PPB	083154D	GC23F-708-38	09/01/2011 12:55:20	6.19	26.10
29	A1254 100 PPB	083154E	GC23F-708-39	09/01/2011 13:27:55	6.19	26.10
30	A1260 5 PPB	083160A	GC23F-708-40	09/01/2011 14:00:31		
31	A1260 10 PPB	083160B	GC23F-708-41	09/01/2011 14:33:08		
32	A1260 20 PPB	083160C	GC23F-708-42	09/01/2011 15:05:44		
33	A1260 50 PPB	083160D	GC23F-708-43	09/01/2011 15:38:26		
34	A1260 100 PPB	083160E	GC23F-708-44	09/01/2011 16:11:02		
35	A1262 5 PPB	083162A	GC23F-708-45	09/01/2011 16:43:37		
36	A1262 10 PPB	083162B	GC23F-708-46	09/01/2011 17:16:20		
37	A1262 20 PPB	083162C	GC23F-708-47	09/01/2011 17:48:55		
38	A1262 50 PPB	083162D	GC23F-708-48	09/01/2011 18:21:31		

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA

Print Date: 9/12/2011
Lims Version : 5.0.5.8

9

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: NEA - A Division of PACE SDG No: 11080601

ELAP ID No: 11078

Instrument ID: GC23F Init. Calib. Date(s): 08/31/11,09/01/11

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.19 DCBP RT: 26.10

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 100 PPB	083162E	GC23F-708-49	09/01/2011 18:54:06		
40	A1268 5 PPB	083168A	GC23F-708-50	09/01/2011 19:26:41		
41	A1268 10 PPB	083168B	GC23F-708-51	09/01/2011 19:59:24		
42	A1268 20 PPB	083168C	GC23F-708-52	09/01/2011 20:32:00		
43	A1268 50 PPB	083168D	GC23F-708-53	09/01/2011 21:04:36		
44	A1268 100 PPB	083168E	GC23F-708-54	09/01/2011 21:37:12		
45	A1016 100 PPB	083116E1	GC23F-708-55	09/01/2011 22:09:49		
46	A1016 50 PPB	CS160831C	GC23F-708-57	09/01/2011 23:15:01	6.19	26.10
47	A1221 50 PPB	CS210831A	GC23F-708-58	09/01/2011 23:47:36	6.19	26.09
48	A1232 50 PPB	CS320831A	GC23F-708-59	09/02/2011 00:20:11	6.19	26.10
49	A1242 50 PPB	CS420831A	GC23F-708-60	09/02/2011 00:52:48	6.19	26.09
50	A1248 50 PPB	CS480831A	GC23F-708-61	09/02/2011 01:25:23	6.19	26.10
51	A1254 50 PPB	CS540831B	GC23F-708-62	09/02/2011 01:58:01	6.19	26.10
52	A1260 50 PPB	CS600831A	GC23F-708-63	09/02/2011 02:30:37	6.19	26.10
53	A1262 50 PPB	CS620831A	GC23F-708-64	09/02/2011 03:03:12	6.19	26.11
54	A1268 50 PPB	CS680831A	GC23F-708-65	09/02/2011 03:35:49	6.19	26.11
55	PBLK-82(METHOD BLANK)	AO17004B	GC23F-709-1	09/02/2011 04:08:26	6.19	26.10
56	LCS-82(LAB CONTROL SPIKE)	AO17004L	GC23F-709-2	09/02/2011 04:41:00	6.19	26.10
57	MW-33	AO17002	GC23F-709-3	09/02/2011 05:13:35	6.19	26.11
58	MW-31	AO17003	GC23F-709-4	09/02/2011 05:46:12	6.19	26.10
59	MW-5D	AO17004	GC23F-709-5	09/02/2011 06:18:50	6.19	26.10
60	MW-5D MS	AO17004M	GC23F-709-6	09/02/2011 06:51:27	6.19	26.11
61	MW-5D MSD	AO17004K	GC23F-709-7	09/02/2011 07:24:04	6.19	26.11
62	MW-5	AO17005	GC23F-709-8	09/02/2011 07:56:39	6.19	26.10
63	MW-32	AO17006	GC23F-709-9	09/02/2011 08:29:15	6.19	26.11
64	A1016 50 PPB	CS160901A	GC23F-709-10	09/02/2011 09:01:50	6.19	26.11
65	A1232 50 PPB	CS320902A	GC23F-710-3	09/02/2011 18:52:20	6.19	26.10
66	MW-28	AO17007RR1	GC23F-710-4	09/02/2011 19:24:57	6.19(D)	26.10(D)
67	MW-27R	AO17008RR1	GC23F-710-5	09/02/2011 19:57:39	6.19(D)	26.11(D)
68	DUP-1	AO17009RR1	GC23F-710-6	09/02/2011 20:30:17	6.19(D)	26.12(D)
69	MW-27D	AO17010RR1	GC23F-710-7	09/02/2011 21:02:52	6.19	26.10
70	A1242 50 PPB	CS420902A	GC23F-710-8	09/02/2011 21:35:29	6.19	26.11

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23F)

10

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
SDG NO: 11080601
ELAP ID No: 11078
Date(s) Analyzed: 08/31/11,09/01/11
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23F-708-10	083116A	5.00	174.197		
	GC23F-708-11	083116B	10.0	173.908		
	GC23F-708-12	083116C	20.0	158.518		
	GC23F-708-13	083116D	50.0	156.182		
	GC23F-708-55	083116E1	100	156.034	163.768	5.8
Aroclor 1221	GC23F-708-15	083121A	5.00	39.192		
	GC23F-708-16	083121B	10.0	39.038		
	GC23F-708-17	083121C	20.0	39.629		
	GC23F-708-18	083121D	50.0	39.721		
	GC23F-708-19	083121E	100	38.692	39.254	1.1
Aroclor 1232	GC23F-708-20	083132A	5.00	78.307		
	GC23F-708-21	083132B	10.0	85.012		
	GC23F-708-22	083132C	20.0	76.147		
	GC23F-708-23	083132D	50.0	75.852		
	GC23F-708-24	083132E	100	71.011	77.266	6.6
Aroclor 1242	GC23F-708-25	083142A	5.00	129.255		
	GC23F-708-26	083142B	10.0	137.391		
	GC23F-708-27	083142C	20.0	132.703		
	GC23F-708-28	083142D	50.0	130.149		
	GC23F-708-29	083142E	100	132.103	132.320	2.4
Aroclor 1248	GC23F-708-30	083148A	5.00	142.303		
	GC23F-708-31	083148B	10.0	149.730		
	GC23F-708-32	083148C	20.0	138.143		
	GC23F-708-33	083148D	50.0	149.394		
	GC23F-708-34	083148E	100	143.242	144.562	3.4
Aroclor 1254	GC23F-708-35	083154A	5.00	242.839		
	GC23F-708-36	083154B	10.0	265.058		
	GC23F-708-37	083154C	20.0	263.032		
	GC23F-708-38	083154D	50.0	247.546		
	GC23F-708-39	083154E	100	254.659	254.627	3.8
Aroclor 1260	GC23F-708-40	083160A	5.00	409.906		
	GC23F-708-41	083160B	10.0	373.739		
	GC23F-708-42	083160C	20.0	374.113		
	GC23F-708-43	083160D	50.0	357.951		
	GC23F-708-44	083160E	100	352.944	373.731	6.0
Aroclor 1262	GC23F-708-45	083162A	5.00	410.626		
	GC23F-708-46	083162B	10.0	401.311		
	GC23F-708-47	083162C	20.0	399.714		
	GC23F-708-48	083162D	50.0	379.847		
	GC23F-708-49	083162E	100	399.881	398.276	2.8

FORM VI-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
SDG NO: 11080601
ELAP ID No: 11078
Date(s) Analyzed: 08/31/11,09/01/11
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23F-708-50	083168A	5.00	704.307		
	GC23F-708-51	083168B	10.0	665.511		
	GC23F-708-52	083168C	20.0	654.085		
	GC23F-708-53	083168D	50.0	750.714		
	GC23F-708-54	083168E	100	672.839	689.491	5.7
TCMX	GC23F-708-35	083154A	1.00	933.725		
	GC23F-708-36	083154B	2.50	973.954		
	GC23F-708-37	083154C	4.00	976.805		
	GC23F-708-38	083154D	5.00	990.331		
	GC23F-708-39	083154E	8.00	962.167	967.396	2.2
DCBP	GC23F-708-35	083154A	10.0	992.919		
	GC23F-708-36	083154B	25.0	984.752		
	GC23F-708-37	083154C	40.0	993.828		
	GC23F-708-38	083154D	50.0	980.137		
	GC23F-708-39	083154E	80.0	948.455	980.018	1.9

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

10

INITIAL/CONTINUING CALIBRATION DATA (GC23F)

11

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE SDG NO: 11080601

ELAP ID No: 11078

Instrument ID: GC23F

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23F-708-57	CS160831C	ICV	52.9	50	5.73		09/01/2011 23:15:01
Aroclor 1221	GC23F-708-58	CS210831A	ICV	51.7	50	3.48		09/01/2011 23:47:36
Aroclor 1232	GC23F-708-59	CS320831A	ICV	50.6	50	1.23		09/02/2011 00:20:11
Aroclor 1242	GC23F-708-60	CS420831A	ICV	50.2	50	0.451		09/02/2011 00:52:48
Aroclor 1248	GC23F-708-61	CS480831A	ICV	51.8	50	3.53		09/02/2011 01:25:23
Aroclor 1254	GC23F-708-62	CS540831B	ICV	52.0	50	3.99		09/02/2011 01:58:01
Aroclor 1260	GC23F-708-63	CS600831A	ICV	51.7	50	3.39		09/02/2011 02:30:37
Aroclor 1262	GC23F-708-64	CS620831A	ICV	50.2	50	0.440		09/02/2011 03:03:12
Aroclor 1268	GC23F-708-65	CS680831A	ICV	51.2	50	2.37		09/02/2011 03:35:49
Aroclor 1016	GC23F-709-10	CS160901A	CCV	55.4	50	10.7		09/02/2011 09:01:50
Aroclor 1232	GC23F-710-3	CS320902A	CCV	51.8	50	3.59		09/02/2011 18:52:20
Aroclor 1242	GC23F-710-8	CS420902A	CCV	52.3	50	4.65		09/02/2011 21:35:29

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

11

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
SGD NO: 11080601
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-708-57	CS160831C	ICV	1	7.81	7.73	7.89
		CS160831C	ICV	2	8.20	8.12	8.28
		CS160831C	ICV	3	8.84	8.76	8.92
		CS160831C	ICV	4	9.06	8.98	9.14
		CS160831C	ICV	5	9.20	9.12	9.28
Aroclor 1221	GC23F-708-58	CS210831A	ICV	1	4.77	4.69	4.85
		CS210831A	ICV	2	6.03	5.95	6.11
		CS210831A	ICV	3	6.59	6.51	6.67
		CS210831A	ICV	4	6.79	6.71	6.87
		CS210831A	ICV	5	6.91	6.83	6.99
Aroclor 1232	GC23F-708-59	CS320831A	ICV	1	6.91	6.83	6.99
		CS320831A	ICV	2	8.20	8.12	8.28
		CS320831A	ICV	3	8.84	8.76	8.92
		CS320831A	ICV	4	9.06	8.98	9.14
		CS320831A	ICV	5	9.20	9.12	9.28
Aroclor 1242	GC23F-708-60	CS420831A	ICV	1	7.81	7.73	7.89
		CS420831A	ICV	2	8.20	8.12	8.28
		CS420831A	ICV	3	8.84	8.76	8.92
		CS420831A	ICV	4	9.05	8.97	9.13
		CS420831A	ICV	5	9.20	9.12	9.28
Aroclor 1248	GC23F-708-61	CS480831A	ICV	1	9.78	9.70	9.86
		CS480831A	ICV	2	10.45	10.37	10.53
		CS480831A	ICV	3	11.10	11.02	11.18
		CS480831A	ICV	4	11.26	11.18	11.34
		CS480831A	ICV	5	11.67	11.59	11.75
Aroclor 1254	GC23F-708-62	CS540831B	ICV	1	11.99	11.91	12.07
		CS540831B	ICV	2	12.65	12.57	12.73
		CS540831B	ICV	3	12.93	12.85	13.01
		CS540831B	ICV	4	14.42	14.34	14.50
		CS540831B	ICV	5	15.25	15.17	15.33
Aroclor 1260	GC23F-708-63	CS600831A	ICV	1	15.25	15.17	15.33
		CS600831A	ICV	2	17.51	17.43	17.59
		CS600831A	ICV	3	18.43	18.35	18.51
		CS600831A	ICV	4	19.22	19.14	19.30
		CS600831A	ICV	5	21.49	21.41	21.57
Aroclor 1262	GC23F-708-64	CS620831A	ICV	1	15.26	15.18	15.34
		CS620831A	ICV	2	17.51	17.43	17.59
		CS620831A	ICV	3	18.43	18.35	18.51

FORM VII-CLP-PCB(NEA-PACE

Print Date: 9/12/2011
Lims Version : 5.0.5.8

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11080601

ELAP ID No: 11078

Instrument ID: GC23F

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620831A	ICV	4	19.23	19.15	19.31
		CS620831A	ICV	5	21.49	21.41	21.57
Aroclor 1268	GC23F-708-65	CS680831A	ICV	1	19.23	19.15	19.31
		CS680831A	ICV	2	21.50	21.42	21.58
		CS680831A	ICV	3	19.00	18.92	19.08
		CS680831A	ICV	4	20.57	20.49	20.65
		CS680831A	ICV	5	20.95	20.87	21.03

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

11

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
SGD NO: 11080601
ELAP ID No: 11078
Instrument ID: GC23F
GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23F-709-10	CS160901A	CCV	1	7.82	7.73	7.89
		CS160901A	CCV	2	8.20	8.12	8.28
		CS160901A	CCV	3	8.84	8.76	8.92
		CS160901A	CCV	4	9.06	8.98	9.14
		CS160901A	CCV	5	9.20	9.12	9.28
Aroclor 1232	GC23F-710-3	CS320902A	CCV	1	6.91	6.83	6.99
		CS320902A	CCV	2	8.20	8.12	8.28
		CS320902A	CCV	3	8.84	8.76	8.92
		CS320902A	CCV	4	9.06	8.98	9.14
		CS320902A	CCV	5	9.20	9.12	9.28
Aroclor 1242	GC23F-710-8	CS420902A	CCV	1	7.82	7.73	7.89
		CS420902A	CCV	2	8.20	8.12	8.28
		CS420902A	CCV	3	8.84	8.76	8.92
		CS420902A	CCV	4	9.06	8.97	9.13
		CS420902A	CCV	5	9.20	9.12	9.28

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

11

ANALYTICAL SEQUENCE (GC23B)

12

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: NEA - A Division of PACE SDG No: 11080601

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 08/31/11,09/01/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.52 DCBP RT: 27.45

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	083116A	GC23B-707-10	08/31/2011 21:42:03		
02	A1016 10 PPB	083116B	GC23B-707-11	08/31/2011 22:14:39		
03	A1016 20 PPB	083116C	GC23B-707-12	08/31/2011 22:47:14		
04	A1016 50 PPB	083116D	GC23B-707-13	08/31/2011 23:19:50		
05	A1221 5 PPB	083121A	GC23B-707-15	09/01/2011 00:25:10		
06	A1221 10 PPB	083121B	GC23B-707-16	09/01/2011 00:57:52		
07	A1221 20 PPB	083121C	GC23B-707-17	09/01/2011 01:30:26		
08	A1221 50 PPB	083121D	GC23B-707-18	09/01/2011 02:03:02		
09	A1221 100 PPB	083121E	GC23B-707-19	09/01/2011 02:35:39		
10	A1232 5 PPB	083132A	GC23B-707-20	09/01/2011 03:08:16		
11	A1232 10 PPB	083132B	GC23B-707-21	09/01/2011 03:40:51		
12	A1232 20 PPB	083132C	GC23B-707-22	09/01/2011 04:13:28		
13	A1232 50 PPB	083132D	GC23B-707-23	09/01/2011 04:46:04		
14	A1232 100 PPB	083132E	GC23B-707-24	09/01/2011 05:18:41		
15	A1242 5 PPB	083142A	GC23B-707-25	09/01/2011 05:51:17		
16	A1242 10 PPB	083142B	GC23B-707-26	09/01/2011 06:23:52		
17	A1242 20 PPB	083142C	GC23B-707-27	09/01/2011 06:56:28		
18	A1242 50 PPB	083142D	GC23B-707-28	09/01/2011 07:29:03		
19	A1242 100 PPB	083142E	GC23B-707-29	09/01/2011 08:01:46		
20	A1248 5 PPB	083148A	GC23B-707-30	09/01/2011 08:34:22		
21	A1248 10 PPB	083148B	GC23B-707-31	09/01/2011 09:06:58		
22	A1248 20 PPB	083148C	GC23B-707-32	09/01/2011 09:39:35		
23	A1248 50 PPB	083148D	GC23B-707-33	09/01/2011 10:12:10		
24	A1248 100 PPB	083148E	GC23B-707-34	09/01/2011 10:44:46		
25	A1254 5 PPB	083154A	GC23B-707-35	09/01/2011 11:17:23	6.52	27.45
26	A1254 10 PPB	083154B	GC23B-707-36	09/01/2011 11:50:05	6.52	27.45
27	A1254 20 PPB	083154C	GC23B-707-37	09/01/2011 12:22:47	6.52	27.45
28	A1254 50 PPB	083154D	GC23B-707-38	09/01/2011 12:55:24	6.52	27.45
29	A1254 100 PPB	083154E	GC23B-707-39	09/01/2011 13:27:59	6.52	27.45
30	A1260 5 PPB	083160A	GC23B-707-40	09/01/2011 14:00:35		
31	A1260 10 PPB	083160B	GC23B-707-41	09/01/2011 14:33:12		
32	A1260 20 PPB	083160C	GC23B-707-42	09/01/2011 15:05:48		
33	A1260 50 PPB	083160D	GC23B-707-43	09/01/2011 15:38:30		
34	A1260 100 PPB	083160E	GC23B-707-44	09/01/2011 16:11:06		
35	A1262 5 PPB	083162A	GC23B-707-45	09/01/2011 16:43:42		
36	A1262 10 PPB	083162B	GC23B-707-46	09/01/2011 17:16:24		
37	A1262 20 PPB	083162C	GC23B-707-47	09/01/2011 17:48:59		
38	A1262 50 PPB	083162D	GC23B-707-48	09/01/2011 18:21:35		

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA

Print Date: 9/12/2011
Lims Version : 5.0.5.8

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: NEA - A Division of PACE SDG No: 11080601

ELAP ID No: 11078

Instrument ID: GC23B Init. Calib. Date(s): 08/31/11,09/01/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.52 DCBP RT: 27.45

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 100 PPB	083162E	GC23B-707-49	09/01/2011 18:54:10		
40	A1268 5 PPB	083168A	GC23B-707-50	09/01/2011 19:26:45		
41	A1268 10 PPB	083168B	GC23B-707-51	09/01/2011 19:59:28		
42	A1268 20 PPB	083168C	GC23B-707-52	09/01/2011 20:32:04		
43	A1268 50 PPB	083168D	GC23B-707-53	09/01/2011 21:04:41		
44	A1268 100 PPB	083168E	GC23B-707-54	09/01/2011 21:37:16		
45	A1016 100 PPB	083116E1	GC23B-707-55	09/01/2011 22:09:53		
46	A1016 50 PPB	CS160831C	GC23B-707-57	09/01/2011 23:15:05	6.52	27.46
47	A1221 50 PPB	CS210831A	GC23B-707-58	09/01/2011 23:47:40	6.52	27.45
48	A1232 50 PPB	CS320831A	GC23B-707-59	09/02/2011 00:20:14	6.53	27.45
49	A1242 50 PPB	CS420831A	GC23B-707-60	09/02/2011 00:52:51	6.52	27.45
50	A1248 50 PPB	CS480831A	GC23B-707-61	09/02/2011 01:25:26	6.53	27.46
51	A1254 50 PPB	CS540831B	GC23B-707-62	09/02/2011 01:58:04	6.53	27.46
52	A1260 50 PPB	CS600831A	GC23B-707-63	09/02/2011 02:30:40	6.53	27.46
53	A1262 50 PPB	CS620831A	GC23B-707-64	09/02/2011 03:03:16	6.53	27.46
54	A1268 50 PPB	CS680831A	GC23B-707-65	09/02/2011 03:35:53	6.53	27.46
55	PBLK-82(METHOD BLANK)	AO17004B	GC23B-708-1	09/02/2011 04:08:30	6.52	27.45
56	LCS-82(LAB CONTROL SPIKE)	AO17004L	GC23B-708-2	09/02/2011 04:41:05	6.52	27.45
57	MW-33	AO17002	GC23B-708-3	09/02/2011 05:13:40	6.52	27.47
58	MW-31	AO17003	GC23B-708-4	09/02/2011 05:46:16	6.53	27.46
59	MW-5D	AO17004	GC23B-708-5	09/02/2011 06:18:54	6.52	27.46
60	MW-5D MS	AO17004M	GC23B-708-6	09/02/2011 06:51:31	6.53	27.46
61	MW-5D MSD	AO17004K	GC23B-708-7	09/02/2011 07:24:08	6.53	27.46
62	MW-5	AO17005	GC23B-708-8	09/02/2011 07:56:44	6.53	27.47
63	MW-32	AO17006	GC23B-708-9	09/02/2011 08:29:19	6.53	27.46
64	A1016 50 PPB	CS160901A	GC23B-708-10	09/02/2011 09:01:54	6.53	27.46
65	A1232 50 PPB	CS320902A	GC23B-709-3	09/02/2011 18:52:24	6.52	27.46
66	MW-28	AO17007RR1	GC23B-709-4	09/02/2011 19:25:01	6.53(D)	27.46(D)
67	MW-27R	AO17008RR1	GC23B-709-5	09/02/2011 19:57:43	6.53(D)	27.47(D)
68	DUP-1	AO17009RR1	GC23B-709-6	09/02/2011 20:30:21	6.53(D)	27.48(D)
69	MW-27D	AO17010RR1	GC23B-709-7	09/02/2011 21:02:57	6.52	27.46
70	A1242 50 PPB	CS420902A	GC23B-709-8	09/02/2011 21:35:33	6.53	27.46

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23B)

13

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
SDG NO: 11080601
ELAP ID No: 11078
Date(s) Analyzed: 08/31/11,09/01/11
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1016	GC23B-707-10	083116A	5.00	211.187		
	GC23B-707-11	083116B	10.0	206.649		
	GC23B-707-12	083116C	20.0	206.841		
	GC23B-707-13	083116D	50.0	203.672		
	GC23B-707-55	083116E1	100	214.120	208.494	2.0
Aroclor 1221	GC23B-707-15	083121A	5.00	52.062		
	GC23B-707-16	083121B	10.0	53.034		
	GC23B-707-17	083121C	20.0	55.712		
	GC23B-707-18	083121D	50.0	52.128		
	GC23B-707-19	083121E	100	50.633	52.714	3.6
Aroclor 1232	GC23B-707-20	083132A	5.00	106.303		
	GC23B-707-21	083132B	10.0	101.577		
	GC23B-707-22	083132C	20.0	99.840		
	GC23B-707-23	083132D	50.0	98.990		
	GC23B-707-24	083132E	100	94.145	100.171	4.4
Aroclor 1242	GC23B-707-25	083142A	5.00	164.005		
	GC23B-707-26	083142B	10.0	173.531		
	GC23B-707-27	083142C	20.0	175.700		
	GC23B-707-28	083142D	50.0	172.872		
	GC23B-707-29	083142E	100	175.739	172.369	2.8
Aroclor 1248	GC23B-707-30	083148A	5.00	193.755		
	GC23B-707-31	083148B	10.0	191.626		
	GC23B-707-32	083148C	20.0	185.246		
	GC23B-707-33	083148D	50.0	197.827		
	GC23B-707-34	083148E	100	190.474	191.786	2.4
Aroclor 1254	GC23B-707-35	083154A	5.00	337.650		
	GC23B-707-36	083154B	10.0	329.128		
	GC23B-707-37	083154C	20.0	314.094		
	GC23B-707-38	083154D	50.0	323.494		
	GC23B-707-39	083154E	100	326.940	326.261	2.6
Aroclor 1260	GC23B-707-40	083160A	5.00	475.460		
	GC23B-707-41	083160B	10.0	469.203		
	GC23B-707-42	083160C	20.0	478.645		
	GC23B-707-43	083160D	50.0	445.363		
	GC23B-707-44	083160E	100	439.689	461.672	3.9
Aroclor 1262	GC23B-707-45	083162A	5.00	521.511		
	GC23B-707-46	083162B	10.0	492.051		
	GC23B-707-47	083162C	20.0	505.980		
	GC23B-707-48	083162D	50.0	488.109		
	GC23B-707-49	083162E	100	491.198	499.770	2.8

FORM VI-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
SDG NO: 11080601
ELAP ID No: 11078
Date(s) Analyzed: 08/31/11,09/01/11
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL[1] RF	MEAN RF	% RSD
Aroclor 1268	GC23B-707-50	083168A	5.00	883.827		
	GC23B-707-51	083168B	10.0	855.872		
	GC23B-707-52	083168C	20.0	826.265		
	GC23B-707-53	083168D	50.0	946.253		
	GC23B-707-54	083168E	100	837.344	869.912	5.5
TCMX	GC23B-707-35	083154A	1.00	1204.760		
	GC23B-707-36	083154B	2.50	1215.326		
	GC23B-707-37	083154C	4.00	1256.033		
	GC23B-707-38	083154D	5.00	1281.670		
	GC23B-707-39	083154E	8.00	1245.516	1240.660	2.5
DCBP	GC23B-707-35	083154A	10.0	1211.775		
	GC23B-707-36	083154B	25.0	1209.467		
	GC23B-707-37	083154C	40.0	1238.401		
	GC23B-707-38	083154D	50.0	1263.169		
	GC23B-707-39	083154E	80.0	1211.461	1226.850	1.9

% RSD Limit <= 20%
TCMX=TETRACHLOROMETAXYLENE
DCBP=DECACHLOROBIPHENYL

[1] Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

13

INITIAL/CONTINUING CALIBRATION DATA (GC23B)

14

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE SDG NO: 11080601

ELAP ID No: 11078

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	Q	DATE / TIME ANALYZED
Aroclor 1016	GC23B-707-57	CS160831C	ICV	52.1	50	4.25		09/01/2011 23:15:05
Aroclor 1221	GC23B-707-58	CS210831A	ICV	55.0	50	9.90		09/01/2011 23:47:40
Aroclor 1232	GC23B-707-59	CS320831A	ICV	55.6	50	11.2		09/02/2011 00:20:14
Aroclor 1242	GC23B-707-60	CS420831A	ICV	51.1	50	2.20		09/02/2011 00:52:51
Aroclor 1248	GC23B-707-61	CS480831A	ICV	50.6	50	1.23		09/02/2011 01:25:26
Aroclor 1254	GC23B-707-62	CS540831B	ICV	50.4	50	0.894		09/02/2011 01:58:04
Aroclor 1260	GC23B-707-63	CS600831A	ICV	50.9	50	1.81		09/02/2011 02:30:40
Aroclor 1262	GC23B-707-64	CS620831A	ICV	49.5	50	-0.923		09/02/2011 03:03:16
Aroclor 1268	GC23B-707-65	CS680831A	ICV	49.3	50	-1.42		09/02/2011 03:35:53
Aroclor 1016	GC23B-708-10	CS160901A	CCV	49.3	50	-1.44		09/02/2011 09:01:54
Aroclor 1232	GC23B-709-3	CS320902A	CCV	56.9	50	13.8		09/02/2011 18:52:24
Aroclor 1242	GC23B-709-8	CS420902A	CCV	50.9	50	1.89		09/02/2011 21:35:33

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

14

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
SGD NO: 11080601
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB* TYPE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-707-57	CS160831C	ICV	1	8.15	8.07	8.23
		CS160831C	ICV	2	8.56	8.48	8.64
		CS160831C	ICV	3	9.17	9.09	9.25
		CS160831C	ICV	4	9.40	9.32	9.48
		CS160831C	ICV	5	9.58	9.50	9.66
Aroclor 1221	GC23B-707-58	CS210831A	ICV	1	5.32	5.24	5.40
		CS210831A	ICV	2	6.47	6.39	6.55
		CS210831A	ICV	3	6.96	6.88	7.04
		CS210831A	ICV	4	7.17	7.09	7.25
		CS210831A	ICV	5	7.29	7.21	7.37
Aroclor 1232	GC23B-707-59	CS320831A	ICV	1	7.29	7.21	7.37
		CS320831A	ICV	2	8.57	8.49	8.65
		CS320831A	ICV	3	9.18	9.10	9.26
		CS320831A	ICV	4	9.40	9.32	9.48
		CS320831A	ICV	5	9.59	9.51	9.67
Aroclor 1242	GC23B-707-60	CS420831A	ICV	1	8.15	8.07	8.23
		CS420831A	ICV	2	8.56	8.48	8.64
		CS420831A	ICV	3	9.17	9.09	9.25
		CS420831A	ICV	4	9.40	9.32	9.48
		CS420831A	ICV	5	9.58	9.50	9.66
Aroclor 1248	GC23B-707-61	CS480831A	ICV	1	10.11	10.03	10.19
		CS480831A	ICV	2	10.84	10.76	10.92
		CS480831A	ICV	3	11.45	11.37	11.53
		CS480831A	ICV	4	11.66	11.58	11.74
		CS480831A	ICV	5	12.13	12.05	12.21
Aroclor 1254	GC23B-707-62	CS540831B	ICV	1	12.31	12.23	12.39
		CS540831B	ICV	2	13.09	13.01	13.17
		CS540831B	ICV	3	13.38	13.30	13.46
		CS540831B	ICV	4	14.86	14.78	14.94
		CS540831B	ICV	5	15.73	15.65	15.81
Aroclor 1260	GC23B-707-63	CS600831A	ICV	1	15.73	15.65	15.81
		CS600831A	ICV	2	18.00	17.92	18.08
		CS600831A	ICV	3	19.19	19.11	19.27
		CS600831A	ICV	4	19.83	19.75	19.91
		CS600831A	ICV	5	22.48	22.40	22.56
Aroclor 1262	GC23B-707-64	CS620831A	ICV	1	15.73	15.65	15.81
		CS620831A	ICV	2	18.01	17.93	18.09
		CS620831A	ICV	3	19.20	19.12	19.28

FORM VII-CLP-PCB(NEA-PACE

Print Date: 9/12/2011
Lims Version : 5.0.5.8

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11080601

ELAP ID No: 11078

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1262		CS620831A	ICV	4	19.84	19.76	19.92
		CS620831A	ICV	5	22.49	22.41	22.57
Aroclor 1268	GC23B-707-65	CS680831A	ICV	1	19.83	19.75	19.91
		CS680831A	ICV	2	22.49	22.41	22.57
		CS680831A	ICV	3	19.60	19.52	19.68
		CS680831A	ICV	4	21.27	21.19	21.35
		CS680831A	ICV	5	21.71	21.63	21.79

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

14

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
SGD NO: 11080601
ELAP ID No: 11078
Instrument ID: GC23B
GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE*	PEAK	RT	RT WINDOW FROM	RT WINDOW TO
Aroclor 1016	GC23B-708-10	CS160901A	CCV	1	8.15	8.07	8.23
		CS160901A	CCV	2	8.57	8.48	8.64
		CS160901A	CCV	3	9.18	9.09	9.25
		CS160901A	CCV	4	9.41	9.32	9.48
		CS160901A	CCV	5	9.59	9.50	9.66
Aroclor 1232	GC23B-709-3	CS320902A	CCV	1	7.29	7.21	7.37
		CS320902A	CCV	2	8.56	8.49	8.65
		CS320902A	CCV	3	9.17	9.10	9.26
		CS320902A	CCV	4	9.40	9.32	9.48
		CS320902A	CCV	5	9.59	9.51	9.67
Aroclor 1242	GC23B-709-8	CS420902A	CCV	1	8.15	8.07	8.23
		CS420902A	CCV	2	8.56	8.48	8.64
		CS420902A	CCV	3	9.17	9.09	9.25
		CS420902A	CCV	4	9.40	9.32	9.48
		CS420902A	CCV	5	9.58	9.50	9.66

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

14

QC SAMPLE RAW DATA

15

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	PBLK-82
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AO17004B
Percent Moisture:	100	Lab File ID:	GC23F-709-1
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	PBLK-82
Matrix:	Water	Client ID:	METHOD BLANK
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AO17004B
Percent Moisture:	100	Lab File ID:	GC23B-708-1
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	LCS-82
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AO17004L
Percent Moisture:	100	Lab File ID:	GC23F-709-2
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.504	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	LCS-82
Matrix:	Water	Client ID:	LAB CONTROL SPIKE
Sample wt(Dry)/vol:	1000 mL	Lab Sample ID:	AO17004L
Percent Moisture:	100	Lab File ID:	GC23B-708-2
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.515	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	LCS-82(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-82	Lab Sample ID:	AO17004L
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 4:41:00 AM	Date Analyzed:	09/02/2011 4:41:05 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-2	Lab File ID 2:	GC23B-708-2
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.81	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66			
Aroclor 1221	1	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
Aroclor 1232	1	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.32	9.48			
		5	9.58	9.51	9.67			
Aroclor 1242	1	1	7.81	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28	0.504		
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66	0.515	2.16	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	LCS-82(LAB CONTROL SPIKE)
LRF Sample ID:	LCS-82	Lab Sample ID:	AO17004L
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 4:41:00 AM	Date Analyzed:	09/02/2011 4:41:05 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-2	Lab File ID 2:	GC23B-708-2
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.18	11.34			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.76	10.92			
		3	NA	11.37	11.53			
		4	NA	11.58	11.74			
		5	NA	12.05	12.21			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.85	13.01			
		4	NA	14.34	14.50			
		5	NA	15.17	15.33			
	2	1	NA	12.23	12.39			
		2	NA	13.01	13.17			
		3	NA	13.30	13.46			
		4	NA	14.78	14.94			
		5	NA	15.65	15.81			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			
	2	1	NA	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			

15

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-03MS
Matrix:	Water	Client ID:	MW-5D MS
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17004M
Percent Moisture:	100	Lab File ID:	GC23F-709-6
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	08/26/2011
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.485	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-03MS
Matrix:	Water	Client ID:	MW-5D MS
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17004M
Percent Moisture:	100	Lab File ID:	GC23B-708-6
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	08/26/2011
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.494	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-5D MS
LRF Sample ID:	11080601-03MS	Lab Sample ID:	AO17004M
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 6:51:27 AM	Date Analyzed:	09/02/2011 6:51:31 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-6	Lab File ID 2:	GC23B-708-6
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	8.15	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.18	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.59	9.50	9.66			
Aroclor 1221	1	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
Aroclor 1232	1	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	NA	7.21	7.37			
		2	8.57	8.49	8.65			
		3	9.18	9.10	9.26			
		4	9.41	9.32	9.48			
		5	9.59	9.51	9.67			
Aroclor 1242	1	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28	0.485		
	2	1	8.15	8.07	8.23			
		2	8.57	8.48	8.64			
		3	9.18	9.09	9.25			
		4	9.41	9.32	9.48			
		5	9.59	9.50	9.66	0.494	1.84	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

15

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-5D MS
LRF Sample ID:	11080601-03MS	Lab Sample ID:	AO17004M
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 6:51:27 AM	Date Analyzed:	09/02/2011 6:51:31 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-6	Lab File ID 2:	GC23B-708-6
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.18	11.34			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.76	10.92			
		3	NA	11.37	11.53			
		4	NA	11.58	11.74			
		5	NA	12.05	12.21			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.85	13.01			
		4	NA	14.34	14.50			
		5	NA	15.17	15.33			
	2	1	NA	12.23	12.39			
		2	NA	13.01	13.17			
		3	NA	13.30	13.46			
		4	NA	14.78	14.94			
		5	NA	15.65	15.81			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			
	2	1	NA	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			

15

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-03MSD
Matrix:	Water	Client ID:	MW-5D MSD
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17004K
Percent Moisture:	100	Lab File ID:	GC23F-709-7
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	08/26/2011
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.471	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	LRF ID:	11080601-03MSD
Matrix:	Water	Client ID:	MW-5D MSD
Sample wt(Dry)/vol:	1080 mL	Lab Sample ID:	AO17004K
Percent Moisture:	100	Lab File ID:	GC23B-708-7
Extraction:	Continuous Liquid-Liquid Extraction	Date Received:	08/26/2011
Conc. Extract Volume:	10000 uL	Date Extracted:	08/27/2011
Injection Volume:	1.0 uL	Date Analyzed:	09/02/2011
Method:	SW-846 Method 8082	Dilution Factor:	1
GC Column:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	Sulfur Cleanup:	YES

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.498	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

15

FORM I-CLP-PCB (NEA)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-5D MSD
LRF Sample ID:	11080601-03MSD	Lab Sample ID:	AO17004K
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 7:24:04 AM	Date Analyzed:	09/02/2011 7:24:08 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-7	Lab File ID 2:	GC23B-708-7
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window From	RT Window To	Concentration (ug/L)	RPD (%)	*
Aroclor 1016	1	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66			
Aroclor 1221	1	1	NA	4.69	4.85			
		2	NA	5.95	6.11			
		3	NA	6.51	6.67			
		4	NA	6.71	6.87			
		5	NA	6.83	6.99			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
Aroclor 1232	1	1	NA	6.83	6.99			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.98	9.14			
		5	9.20	9.12	9.28			
	2	1	NA	7.21	7.37			
		2	8.56	8.49	8.65			
		3	9.17	9.10	9.26			
		4	9.40	9.32	9.48			
		5	9.58	9.51	9.67			
Aroclor 1242	1	1	7.82	7.73	7.89			
		2	8.20	8.12	8.28			
		3	8.84	8.76	8.92			
		4	9.06	8.97	9.13			
		5	9.20	9.12	9.28	0.471		
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66	0.498	5.57	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11080601
ELAP ID No:	11078	Client ID:	MW-5D MSD
LRF Sample ID:	11080601-03MSD	Lab Sample ID:	AO17004K
Instrument 1 ID:	GC23F	Instrument 2 ID:	GC23B
Date Analyzed:	09/02/2011 7:24:04 AM	Date Analyzed:	09/02/2011 7:24:08 AM
GC Column 1:	Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC23F-709-7	Lab File ID 2:	GC23B-708-7
Matrix:	Water		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.70	9.86			
		2	NA	10.37	10.53			
		3	NA	11.02	11.18			
		4	NA	11.18	11.34			
		5	NA	11.59	11.75			
	2	1	NA	10.03	10.19			
		2	NA	10.76	10.92			
		3	NA	11.37	11.53			
		4	NA	11.58	11.74			
		5	NA	12.05	12.21			
Aroclor 1254	1	1	NA	11.91	12.07			
		2	NA	12.57	12.73			
		3	NA	12.85	13.01			
		4	NA	14.34	14.50			
		5	NA	15.17	15.33			
	2	1	NA	12.23	12.39			
		2	NA	13.01	13.17			
		3	NA	13.30	13.46			
		4	NA	14.78	14.94			
		5	NA	15.65	15.81			
Aroclor 1260	1	1	NA	15.17	15.33			
		2	NA	17.43	17.59			
		3	NA	18.35	18.51			
		4	NA	19.14	19.30			
		5	NA	21.41	21.57			
	2	1	NA	15.65	15.81			
		2	NA	17.92	18.08			
		3	NA	19.11	19.27			
		4	NA	19.75	19.91			
		5	NA	22.40	22.56			

15

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 9/12/2011
Lims Version : 5.0.5.8

ANALYTICAL REPORT

Lab Number:	L1113256
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3600
Project Name:	NBHS
Project Number:	115058.000580.000008
Report Date:	09/01/11

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Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113256-01	MW-33	NEW BEDFORD, MA	08/24/11 12:45
L1113256-02	MW-31	NEW BEDFORD, MA	08/24/11 13:00
L1113256-03	MW-5D	NEW BEDFORD, MA	08/24/11 16:40
L1113256-04	MW-5	NEW BEDFORD, MA	08/24/11 17:00
L1113256-05	MW-32	NEW BEDFORD, MA	08/25/11 15:20
L1113256-06	MW-28	NEW BEDFORD, MA	08/25/11 12:35
L1113256-07	MW-27D	NEW BEDFORD, MA	08/25/11 13:00
L1113256-08	DUP-1	NEW BEDFORD, MA	08/25/11 00:00
L1113256-09	TRIP BLANK	NEW BEDFORD, MA	08/24/11 00:00
L1113256-10	MW-27R	NEW BEDFORD, MA	08/25/11 14:50

Project Name:	NBHS	**Lab Number:**	L1113256
Project Number:	115058.000580.000008	**Report Date:**	09/01/11

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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:	NBHS	**Lab Number:**	L1113256
Project Number:	115058.000580.000008	**Report Date:**	09/01/11

Case Narrative

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

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

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

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

MCP Related Narratives

Volatile Organics

L1113256-05, -08, and -10 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1113256-01 through -04, -06, -07, and -09: The requested CAM reporting limit was not achieved for Tetrahydrofuran.

L1113256-05, -08, and -10: The requested CAM reporting limits were not achieved for all analytes.

In reference to question H:

The WG487252-1/-2 LCS/LCSD RPD, associated with L1113256-01, is above the acceptance criteria for 1,4-Dioxane (41%); however, the individual LCS/LCSD recoveries are within method limits.

The WG487405-1/-2 LCS/LCSD recoveries, associated with L1113256-02 through -08, are outside the

Case Narrative (continued)

acceptance criteria for several compounds; however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for 1,4-Dioxane (151%/143%) and a potentially low bias for Dichlorodifluoromethane (64%/61%).

The WG487405-4 LCS recovery, associated with L1113256-09 and -10, is below the individual acceptance criteria for Carbon tetrachloride (68%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound. In addition, the associated WG487405-4/-5 LCS/LCSD RPD is above the acceptance criteria for Carbon tetrachloride (22%).

The WG487405-4/-5 LCS/LCSD recoveries, associated with L1113256-09 and -10, are outside the acceptance criteria for several compounds; however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for 1,4-Dioxane (159%/156%) and a potentially low bias for Dichlorodifluoromethane (LCSD at 68%).

The WG487405-4/-5 LCS/LCSD RPD, associated with L1113256-09 and -10, is above the acceptance criteria for Dibromochloromethane (22%); however, the individual LCS/LCSD recoveries are within method limits.

The WG487405-7/-8 MS/MSD recoveries, performed on L1113256-03, were above the acceptance criteria for Carbon tetrachloride (136%/137%), Dibromochloromethane (154%/140%), 1,1,2-Trichloroethane (MS at 133%), Trichlorofluoromethane (136%/133%), Bromodichloromethane (MS at 136%), trans-1,3-Dichloropropene (MS at 131%), Bromoform (151%/136%), 1,1,2,2-Tetrachloroethane (MS at 137%), Chloromethane (141%/136%), Vinyl chloride (154%/150%), Dibromomethane (MS at 131%), 1,2,3-Trichloropropane (MS at 141%), Dichlorodifluoromethane (149%/145%),1,3-Dichloropropane (MS at 131%), and 1,1,1,2-Tetrachloroethane (145%/133%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for these compounds.

The initial calibration, associated with L1113256-01 through -10 did not meet the method required minimum response factors on the lowest calibration standards for 2-Butanone (0.06921), 2-Hexanone (0.08869), and 1,4-Dioxane (0.00097), as well as the average response factors for 2-Butanone and 1,4-Dioxane. In addition,

Project Name:	NBHS	**Lab Number:**	L1113256
Project Number:	115058.000580.000008	**Report Date:**	09/01/11

Case Narrative (continued)

a quadratic fit was utilized for Bromoform, Bromomethane, Acetone, 4-Methyl-2-pentanone and Tetrahydrofuran.

he continuing calibration standards, associated with L1113256-01 through -10, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

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

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative

Date: 09/01/11

ORGANICS

VOLATILES

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-01	Date Collected:	08/24/11 12:45
Client ID:	MW-33	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/30/11 20:10		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.1		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-01 Date Collected: 08/24/11 12:45

Client ID: MW-33 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-01	Date Collected:	08/24/11 12:45
Client ID:	MW-33	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	109		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-02	Date Collected:	08/24/11 13:00
Client ID:	MW-31	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 15:00		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-02 Date Collected: 08/24/11 13:00

Client ID: MW-31 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-02	Date Collected:	08/24/11 13:00
Client ID:	MW-31	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	110		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-03	Date Collected:	08/24/11 16:40
Client ID:	MW-5D	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 15:31		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	31		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-03 Date Collected: 08/24/11 16:40

Client ID: MW-5D Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	6.3		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-03	Date Collected:	08/24/11 16:40
Client ID:	MW-5D	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	109		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-04	Date Collected:	08/24/11 17:00
Client ID:	MW-5	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 16:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-04 Date Collected: 08/24/11 17:00

Client ID: MW-5 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.1		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-04	Date Collected:	08/24/11 17:00
Client ID:	MW-5	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	111		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-05 D	Date Collected:	08/25/11 15:20
Client ID:	MW-32	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 16:34		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	50	--	25
1,1-Dichloroethane	ND		ug/l	25	--	25
Chloroform	ND		ug/l	25	--	25
Carbon tetrachloride	ND		ug/l	25	--	25
1,2-Dichloropropane	ND		ug/l	25	--	25
Dibromochloromethane	ND		ug/l	25	--	25
1,1,2-Trichloroethane	ND		ug/l	25	--	25
Tetrachloroethene	ND		ug/l	25	--	25
Chlorobenzene	ND		ug/l	25	--	25
Trichlorofluoromethane	ND		ug/l	50	--	25
1,2-Dichloroethane	ND		ug/l	25	--	25
1,1,1-Trichloroethane	ND		ug/l	25	--	25
Bromodichloromethane	ND		ug/l	25	--	25
trans-1,3-Dichloropropene	ND		ug/l	12	--	25
cis-1,3-Dichloropropene	ND		ug/l	12	--	25
1,1-Dichloropropene	ND		ug/l	50	--	25
Bromoform	ND		ug/l	50	--	25
1,1,2,2-Tetrachloroethane	ND		ug/l	25	--	25
Benzene	ND		ug/l	12	--	25
Toluene	ND		ug/l	25	--	25
Ethylbenzene	ND		ug/l	25	--	25
Chloromethane	ND		ug/l	50	--	25
Bromomethane	ND		ug/l	50	--	25
Vinyl chloride	ND		ug/l	25	--	25
Chloroethane	ND		ug/l	50	--	25
1,1-Dichloroethene	ND		ug/l	25	--	25
trans-1,2-Dichloroethene	29		ug/l	25	--	25
Trichloroethene	2800		ug/l	25	--	25
1,2-Dichlorobenzene	ND		ug/l	25	--	25
1,3-Dichlorobenzene	ND		ug/l	25	--	25
1,4-Dichlorobenzene	ND		ug/l	25	--	25

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-05 D Date Collected: 08/25/11 15:20

Client ID: MW-32 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	50	--	25
p/m-Xylene	ND		ug/l	50	--	25
o-Xylene	ND		ug/l	25	--	25
cis-1,2-Dichloroethene	250		ug/l	25	--	25
Dibromomethane	ND		ug/l	50	--	25
1,2,3-Trichloropropane	ND		ug/l	50	--	25
Styrene	ND		ug/l	25	--	25
Dichlorodifluoromethane	ND		ug/l	50	--	25
Acetone	ND		ug/l	120	--	25
Carbon disulfide	ND		ug/l	50	--	25
2-Butanone	ND		ug/l	120	--	25
4-Methyl-2-pentanone	ND		ug/l	120	--	25
2-Hexanone	ND		ug/l	120	--	25
Bromochloromethane	ND		ug/l	50	--	25
Tetrahydrofuran	ND		ug/l	120	--	25
2,2-Dichloropropane	ND		ug/l	50	--	25
1,2-Dibromoethane	ND		ug/l	50	--	25
1,3-Dichloropropane	ND		ug/l	50	--	25
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	25
Bromobenzene	ND		ug/l	50	--	25
n-Butylbenzene	ND		ug/l	50	--	25
sec-Butylbenzene	ND		ug/l	50	--	25
tert-Butylbenzene	ND		ug/l	50	--	25
o-Chlorotoluene	ND		ug/l	50	--	25
p-Chlorotoluene	ND		ug/l	50	--	25
1,2-Dibromo-3-chloropropane	ND		ug/l	50	--	25
Hexachlorobutadiene	ND		ug/l	15	--	25
Isopropylbenzene	ND		ug/l	50	--	25
p-Isopropyltoluene	ND		ug/l	50	--	25
Naphthalene	ND		ug/l	50	--	25
n-Propylbenzene	ND		ug/l	50	--	25
1,2,3-Trichlorobenzene	ND		ug/l	50	--	25
1,2,4-Trichlorobenzene	ND		ug/l	50	--	25
1,3,5-Trimethylbenzene	ND		ug/l	50	--	25
1,2,4-Trimethylbenzene	ND		ug/l	50	--	25
Ethyl ether	ND		ug/l	50	--	25
Isopropyl Ether	ND		ug/l	50	--	25
Ethyl-Tert-Butyl-Ether	ND		ug/l	50	--	25
Tertiary-Amyl Methyl Ether	ND		ug/l	50	--	25

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-05 D Date Collected: 08/25/11 15:20

Client ID: MW-32 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	6200	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	111		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-06	Date Collected:	08/25/11 12:35
Client ID:	MW-28	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 17:05		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	35		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	0.65		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	55		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	51		ug/l	1.0	--	1
Trichloroethene	78		ug/l	1.0	--	1
1,2-Dichlorobenzene	1.2		ug/l	1.0	--	1
1,3-Dichlorobenzene	6.2		ug/l	1.0	--	1
1,4-Dichlorobenzene	25		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-06 Date Collected: 08/25/11 12:35

Client ID: MW-28 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	200		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-06	Date Collected:	08/25/11 12:35
Client ID:	MW-28	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-07	Date Collected:	08/25/11 13:00
Client ID:	MW-27D	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 17:37		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	9.8		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	2.2		ug/l	1.0	--	1
Trichloroethene	4.8		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	1.3		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-07 Date Collected: 08/25/11 13:00

Client ID: MW-27D Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	12		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-07	Date Collected:	08/25/11 13:00
Client ID:	MW-27D	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-08 D	Date Collected:	08/25/11 00:00
Client ID:	DUP-1	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	08/31/11 18:08		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	400	--	200
1,1-Dichloroethane	ND		ug/l	200	--	200
Chloroform	ND		ug/l	200	--	200
Carbon tetrachloride	ND		ug/l	200	--	200
1,2-Dichloropropane	ND		ug/l	200	--	200
Dibromochloromethane	ND		ug/l	200	--	200
1,1,2-Trichloroethane	ND		ug/l	200	--	200
Tetrachloroethene	ND		ug/l	200	--	200
Chlorobenzene	ND		ug/l	200	--	200
Trichlorofluoromethane	ND		ug/l	400	--	200
1,2-Dichloroethane	ND		ug/l	200	--	200
1,1,1-Trichloroethane	ND		ug/l	200	--	200
Bromodichloromethane	ND		ug/l	200	--	200
trans-1,3-Dichloropropene	ND		ug/l	100	--	200
cis-1,3-Dichloropropene	ND		ug/l	100	--	200
1,1-Dichloropropene	ND		ug/l	400	--	200
Bromoform	ND		ug/l	400	--	200
1,1,2,2-Tetrachloroethane	ND		ug/l	200	--	200
Benzene	ND		ug/l	100	--	200
Toluene	ND		ug/l	200	--	200
Ethylbenzene	ND		ug/l	200	--	200
Chloromethane	ND		ug/l	400	--	200
Bromomethane	ND		ug/l	400	--	200
Vinyl chloride	990		ug/l	200	--	200
Chloroethane	ND		ug/l	400	--	200
1,1-Dichloroethene	ND		ug/l	200	--	200
trans-1,2-Dichloroethene	1700		ug/l	200	--	200
Trichloroethene	28000		ug/l	200	--	200
1,2-Dichlorobenzene	ND		ug/l	200	--	200
1,3-Dichlorobenzene	ND		ug/l	200	--	200
1,4-Dichlorobenzene	ND		ug/l	200	--	200

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-08 D Date Collected: 08/25/11 00:00

Client ID: DUP-1 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	400	--	200
p/m-Xylene	ND		ug/l	400	--	200
o-Xylene	ND		ug/l	200	--	200
cis-1,2-Dichloroethene	22000		ug/l	200	--	200
Dibromomethane	ND		ug/l	400	--	200
1,2,3-Trichloropropane	ND		ug/l	400	--	200
Styrene	ND		ug/l	200	--	200
Dichlorodifluoromethane	ND		ug/l	400	--	200
Acetone	ND		ug/l	1000	--	200
Carbon disulfide	ND		ug/l	400	--	200
2-Butanone	ND		ug/l	1000	--	200
4-Methyl-2-pentanone	ND		ug/l	1000	--	200
2-Hexanone	ND		ug/l	1000	--	200
Bromochloromethane	ND		ug/l	400	--	200
Tetrahydrofuran	ND		ug/l	1000	--	200
2,2-Dichloropropane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
Bromobenzene	ND		ug/l	400	--	200
n-Butylbenzene	ND		ug/l	400	--	200
sec-Butylbenzene	ND		ug/l	400	--	200
tert-Butylbenzene	ND		ug/l	400	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
1,2-Dibromo-3-chloropropane	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
Isopropylbenzene	ND		ug/l	400	--	200
p-Isopropyltoluene	ND		ug/l	400	--	200
Naphthalene	ND		ug/l	400	--	200
n-Propylbenzene	ND		ug/l	400	--	200
1,2,3-Trichlorobenzene	ND		ug/l	400	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200
1,3,5-Trimethylbenzene	ND		ug/l	400	--	200
1,2,4-Trimethylbenzene	ND		ug/l	400	--	200
Ethyl ether	ND		ug/l	400	--	200
Isopropyl Ether	ND		ug/l	400	--	200
Ethyl-Tert-Butyl-Ether	ND		ug/l	400	--	200
Tertiary-Amyl Methyl Ether	ND		ug/l	400	--	200

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-08 D Date Collected: 08/25/11 00:00

Client ID: DUP-1 Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	50000	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	111		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-09	Date Collected:	08/24/11 00:00
Client ID:	TRIP BLANK	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	09/01/11 09:17		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-09 Date Collected: 08/24/11 00:00

Client ID: TRIP BLANK Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-09	Date Collected:	08/24/11 00:00
Client ID:	TRIP BLANK	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID:	L1113256-10 D	Date Collected:	08/25/11 14:50
Client ID:	MW-27R	Date Received:	08/25/11
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	09/01/11 09:48		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	400	--	200
1,1-Dichloroethane	ND		ug/l	200	--	200
Chloroform	ND		ug/l	200	--	200
Carbon tetrachloride	ND		ug/l	200	--	200
1,2-Dichloropropane	ND		ug/l	200	--	200
Dibromochloromethane	ND		ug/l	200	--	200
1,1,2-Trichloroethane	ND		ug/l	200	--	200
Tetrachloroethene	ND		ug/l	200	--	200
Chlorobenzene	ND		ug/l	200	--	200
Trichlorofluoromethane	ND		ug/l	400	--	200
1,2-Dichloroethane	ND		ug/l	200	--	200
1,1,1-Trichloroethane	ND		ug/l	200	--	200
Bromodichloromethane	ND		ug/l	200	--	200
trans-1,3-Dichloropropene	ND		ug/l	100	--	200
cis-1,3-Dichloropropene	ND		ug/l	100	--	200
1,1-Dichloropropene	ND		ug/l	400	--	200
Bromoform	ND		ug/l	400	--	200
1,1,2,2-Tetrachloroethane	ND		ug/l	200	--	200
Benzene	ND		ug/l	100	--	200
Toluene	ND		ug/l	200	--	200
Ethylbenzene	ND		ug/l	200	--	200
Chloromethane	ND		ug/l	400	--	200
Bromomethane	ND		ug/l	400	--	200
Vinyl chloride	1000		ug/l	200	--	200
Chloroethane	ND		ug/l	400	--	200
1,1-Dichloroethene	ND		ug/l	200	--	200
trans-1,2-Dichloroethene	1700		ug/l	200	--	200
Trichloroethene	27000		ug/l	200	--	200
1,2-Dichlorobenzene	ND		ug/l	200	--	200
1,3-Dichlorobenzene	ND		ug/l	200	--	200
1,4-Dichlorobenzene	ND		ug/l	200	--	200

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-10 D Date Collected: 08/25/11 14:50

Client ID: MW-27R Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	400	--	200
p/m-Xylene	ND		ug/l	400	--	200
o-Xylene	ND		ug/l	200	--	200
cis-1,2-Dichloroethene	22000		ug/l	200	--	200
Dibromomethane	ND		ug/l	400	--	200
1,2,3-Trichloropropane	ND		ug/l	400	--	200
Styrene	ND		ug/l	200	--	200
Dichlorodifluoromethane	ND		ug/l	400	--	200
Acetone	ND		ug/l	1000	--	200
Carbon disulfide	ND		ug/l	400	--	200
2-Butanone	ND		ug/l	1000	--	200
4-Methyl-2-pentanone	ND		ug/l	1000	--	200
2-Hexanone	ND		ug/l	1000	--	200
Bromochloromethane	ND		ug/l	400	--	200
Tetrahydrofuran	ND		ug/l	1000	--	200
2,2-Dichloropropane	ND		ug/l	400	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	400	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	200	--	200
Bromobenzene	ND		ug/l	400	--	200
n-Butylbenzene	ND		ug/l	400	--	200
sec-Butylbenzene	ND		ug/l	400	--	200
tert-Butylbenzene	ND		ug/l	400	--	200
o-Chlorotoluene	ND		ug/l	400	--	200
p-Chlorotoluene	ND		ug/l	400	--	200
1,2-Dibromo-3-chloropropane	ND		ug/l	400	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
Isopropylbenzene	ND		ug/l	400	--	200
p-Isopropyltoluene	ND		ug/l	400	--	200
Naphthalene	ND		ug/l	400	--	200
n-Propylbenzene	ND		ug/l	400	--	200
1,2,3-Trichlorobenzene	ND		ug/l	400	--	200
1,2,4-Trichlorobenzene	ND		ug/l	400	--	200
1,3,5-Trimethylbenzene	ND		ug/l	400	--	200
1,2,4-Trimethylbenzene	ND		ug/l	400	--	200
Ethyl ether	ND		ug/l	400	--	200
Isopropyl Ether	ND		ug/l	400	--	200
Ethyl-Tert-Butyl-Ether	ND		ug/l	400	--	200
Tertiary-Amyl Methyl Ether	ND		ug/l	400	--	200

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

SAMPLE RESULTS

Lab ID: L1113256-10 D Date Collected: 08/25/11 14:50

Client ID: MW-27R Date Received: 08/25/11

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	50000	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	109		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/30/11 17:01
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG487252-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/30/11 17:01
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG487252-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/30/11 17:01
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG487252-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/31/11 09:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-08 Batch: WG487405-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/31/11 09:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-08 Batch: WG487405-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 08/31/11 09:45
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-08 Batch: WG487405-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/01/11 08:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 09-10 Batch: WG487405-6					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/01/11 08:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 09-10 Batch: WG487405-6					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: NBHS **Lab Number:** L1113256

Project Number: 115058.000580.000008 **Report Date:** 09/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 09/01/11 08:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 09-10 Batch: WG487405-6					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG487252-1 WG487252-2								
Methylene chloride	98		97		70-130	1		20
1,1-Dichloroethane	99		97		70-130	2		20
Chloroform	99		98		70-130	1		20
Carbon tetrachloride	103		109		70-130	6		20
1,2-Dichloropropane	99		98		70-130	1		20
Dibromochloromethane	121		121		70-130	0		20
1,1,2-Trichloroethane	101		98		70-130	3		20
Tetrachloroethene	89		86		70-130	3		20
Chlorobenzene	91		87		70-130	4		20
Trichlorofluoromethane	98		98		70-130	0		20
1,2-Dichloroethane	102		101		70-130	1		20
1,1,1-Trichloroethane	98		99		70-130	1		20
Bromodichloromethane	103		103		70-130	0		20
trans-1,3-Dichloropropene	107		105		70-130	2		20
cis-1,3-Dichloropropene	96		96		70-130	0		20
1,1-Dichloropropene	96		96		70-130	0		20
Bromoform	125		126		70-130	1		20
1,1,2,2-Tetrachloroethane	102		102		70-130	0		20
Benzene	98		97		70-130	1		20
Toluene	93		90		70-130	3		20
Ethylbenzene	95		92		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG487252-1 WG487252-2								
Chloromethane	89		85		70-130	5		20
Bromomethane	83		79		70-130	5		20
Vinyl chloride	98		96		70-130	2		20
Chloroethane	97		95		70-130	2		20
1,1-Dichloroethene	93		92		70-130	1		20
trans-1,2-Dichloroethene	93		91		70-130	2		20
Trichloroethene	92		91		70-130	1		20
1,2-Dichlorobenzene	96		94		70-130	2		20
1,3-Dichlorobenzene	95		93		70-130	2		20
1,4-Dichlorobenzene	95		94		70-130	1		20
Methyl tert butyl ether	96		102		70-130	6		20
p/m-Xylene	95		91		70-130	4		20
o-Xylene	94		94		70-130	0		20
cis-1,2-Dichloroethene	96		94		70-130	2		20
Dibromomethane	100		103		70-130	3		20
1,2,3-Trichloropropane	108		107		70-130	1		20
Styrene	97		96		70-130	1		20
Dichlorodifluoromethane	71		70		70-130	1		20
Acetone	107		108		70-130	1		20
Carbon disulfide	94		92		70-130	2		20
2-Butanone	110		118		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008
Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG487252-1 WG487252-2								
4-Methyl-2-pentanone	106		114		70-130	7		20
2-Hexanone	105		111		70-130	6		20
Bromochloromethane	95		96		70-130	1		20
Tetrahydrofuran	102		110		70-130	8		20
2,2-Dichloropropane	102		102		70-130	0		20
1,2-Dibromoethane	101		100		70-130	1		20
1,3-Dichloropropane	102		99		70-130	3		20
1,1,1,2-Tetrachloroethane	114		114		70-130	0		20
Bromobenzene	94		91		70-130	3		20
n-Butylbenzene	98		96		70-130	2		20
sec-Butylbenzene	92		90		70-130	2		20
tert-Butylbenzene	92		89		70-130	3		20
o-Chlorotoluene	97		99		70-130	2		20
p-Chlorotoluene	100		98		70-130	2		20
1,2-Dibromo-3-chloropropane	101		102		70-130	1		20
Hexachlorobutadiene	93		92		70-130	1		20
Isopropylbenzene	92		89		70-130	3		20
p-Isopropyltoluene	100		96		70-130	4		20
Naphthalene	91		92		70-130	1		20
n-Propylbenzene	94		91		70-130	3		20
1,2,3-Trichlorobenzene	96		93		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008
Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG487252-1 WG487252-2								
1,2,4-Trichlorobenzene	95		93		70-130	2		20
1,3,5-Trimethylbenzene	96		92		70-130	4		20
1,2,4-Trimethylbenzene	102		97		70-130	5		20
Ethyl ether	102		109		70-130	7		20
Isopropyl Ether	100		106		70-130	6		20
Ethyl-Tert-Butyl-Ether	99		104		70-130	5		20
Tertiary-Amyl Methyl Ether	98		104		70-130	6		20
1,4-Dioxane	109		72		70-130	**41**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	101		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-08 Batch: WG487405-1 WG487405-2								
Methylene chloride	92		91		70-130	1		20
1,1-Dichloroethane	94		92		70-130	2		20
Chloroform	98		96		70-130	2		20
Carbon tetrachloride	92		99		70-130	7		20
1,2-Dichloropropane	99		96		70-130	3		20
Dibromochloromethane	118		123		70-130	4		20
1,1,2-Trichloroethane	104		101		70-130	3		20
Tetrachloroethene	88		88		70-130	0		20
Chlorobenzene	91		91		70-130	0		20
Trichlorofluoromethane	92		90		70-130	2		20
1,2-Dichloroethane	101		100		70-130	1		20
1,1,1-Trichloroethane	90		92		70-130	2		20
Bromodichloromethane	101		105		70-130	4		20
trans-1,3-Dichloropropene	106		105		70-130	1		20
cis-1,3-Dichloropropene	94		94		70-130	0		20
1,1-Dichloropropene	89		89		70-130	0		20
Bromoform	112		118		70-130	5		20
1,1,2,2-Tetrachloroethane	102		101		70-130	1		20
Benzene	96		94		70-130	2		20
Toluene	94		91		70-130	3		20
Ethylbenzene	96		94		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-08 Batch: WG487405-1 WG487405-2								
Chloromethane	85		79		70-130	7		20
Bromomethane	84		82		70-130	2		20
Vinyl chloride	90		86		70-130	5		20
Chloroethane	94		88		70-130	7		20
1,1-Dichloroethene	86		84		70-130	2		20
trans-1,2-Dichloroethene	87		84		70-130	4		20
Trichloroethene	91		89		70-130	2		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	94		94		70-130	0		20
1,4-Dichlorobenzene	95		94		70-130	1		20
Methyl tert butyl ether	93		89		70-130	4		20
p/m-Xylene	97		95		70-130	2		20
o-Xylene	96		95		70-130	1		20
cis-1,2-Dichloroethene	94		91		70-130	3		20
Dibromomethane	102		101		70-130	1		20
1,2,3-Trichloropropane	107		105		70-130	2		20
Styrene	98		98		70-130	0		20
Dichlorodifluoromethane	**64**	Q	**61**	Q	70-130	5		20
Acetone	112		97		70-130	14		20
Carbon disulfide	88		86		70-130	2		20
2-Butanone	114		110		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-08 Batch: WG487405-1 WG487405-2								
4-Methyl-2-pentanone	112		106		70-130	6		20
2-Hexanone	111		104		70-130	7		20
Bromochloromethane	92		93		70-130	1		20
Tetrahydrofuran	104		95		70-130	9		20
2,2-Dichloropropane	93		93		70-130	0		20
1,2-Dibromoethane	102		100		70-130	2		20
1,3-Dichloropropane	104		102		70-130	2		20
1,1,1,2-Tetrachloroethane	110		113		70-130	3		20
Bromobenzene	95		94		70-130	1		20
n-Butylbenzene	100		95		70-130	5		20
sec-Butylbenzene	94		89		70-130	5		20
tert-Butylbenzene	92		89		70-130	3		20
o-Chlorotoluene	97		94		70-130	3		20
p-Chlorotoluene	100		97		70-130	3		20
1,2-Dibromo-3-chloropropane	96		98		70-130	2		20
Hexachlorobutadiene	89		91		70-130	2		20
Isopropylbenzene	93		91		70-130	2		20
p-Isopropyltoluene	100		96		70-130	4		20
Naphthalene	82		86		70-130	5		20
n-Propylbenzene	96		92		70-130	4		20
1,2,3-Trichlorobenzene	89		91		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-08 Batch: WG487405-1 WG487405-2								
1,2,4-Trichlorobenzene	89		91		70-130	2		20
1,3,5-Trimethylbenzene	95		93		70-130	2		20
1,2,4-Trimethylbenzene	101		98		70-130	3		20
Ethyl ether	101		100		70-130	1		20
Isopropyl Ether	98		95		70-130	3		20
Ethyl-Tert-Butyl-Ether	96		93		70-130	3		20
Tertiary-Amyl Methyl Ether	97		94		70-130	3		20
1,4-Dioxane	**151**	Q	**143**	Q	70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 09-10 Batch: WG487405-4 WG487405-5								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	98		97		70-130	1		20
Carbon tetrachloride	**68**	Q	85		70-130	**22**	Q	20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	75		94		70-130	**22**	Q	20
1,1,2-Trichloroethane	101		100		70-130	1		20
Tetrachloroethene	92		92		70-130	0		20
Chlorobenzene	93		91		70-130	2		20
Trichlorofluoromethane	99		96		70-130	3		20
1,2-Dichloroethane	106		104		70-130	2		20
1,1,1-Trichloroethane	76		87		70-130	13		20
Bromodichloromethane	76		90		70-130	17		20
trans-1,3-Dichloropropene	75		86		70-130	14		20
cis-1,3-Dichloropropene	73		83		70-130	13		20
1,1-Dichloropropene	95		96		70-130	1		20
Bromoform	70		84		70-130	18		20
1,1,2,2-Tetrachloroethane	93		96		70-130	3		20
Benzene	100		98		70-130	2		20
Toluene	95		94		70-130	1		20
Ethylbenzene	99		98		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 09-10 Batch: WG487405-4 WG487405-5								
Chloromethane	93		87		70-130	7		20
Bromomethane	80		86		70-130	7		20
Vinyl chloride	99		96		70-130	3		20
Chloroethane	104		100		70-130	4		20
1,1-Dichloroethene	95		92		70-130	3		20
trans-1,2-Dichloroethene	93		91		70-130	2		20
Trichloroethene	94		93		70-130	1		20
1,2-Dichlorobenzene	94		91		70-130	3		20
1,3-Dichlorobenzene	94		92		70-130	2		20
1,4-Dichlorobenzene	94		92		70-130	2		20
Methyl tert butyl ether	92		89		70-130	3		20
p/m-Xylene	100		98		70-130	2		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	96		95		70-130	1		20
Dibromomethane	101		102		70-130	1		20
1,2,3-Trichloropropane	104		103		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	71		**68**	Q	70-130	4		20
Acetone	108		101		70-130	7		20
Carbon disulfide	86		90		70-130	5		20
2-Butanone	113		109		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 09-10 Batch: WG487405-4 WG487405-5								
4-Methyl-2-pentanone	104		101		70-130	3		20
2-Hexanone	101		101		70-130	0		20
Bromochloromethane	96		95		70-130	1		20
Tetrahydrofuran	104		101		70-130	3		20
2,2-Dichloropropane	82		87		70-130	6		20
1,2-Dibromoethane	87		94		70-130	8		20
1,3-Dichloropropane	103		101		70-130	2		20
1,1,1,2-Tetrachloroethane	71		87		70-130	20		20
Bromobenzene	93		93		70-130	0		20
n-Butylbenzene	99		97		70-130	2		20
sec-Butylbenzene	94		93		70-130	1		20
tert-Butylbenzene	92		92		70-130	0		20
o-Chlorotoluene	97		96		70-130	1		20
p-Chlorotoluene	99		99		70-130	0		20
1,2-Dibromo-3-chloropropane	98		95		70-130	3		20
Hexachlorobutadiene	84		88		70-130	5		20
Isopropylbenzene	94		95		70-130	1		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	79		81		70-130	3		20
n-Propylbenzene	96		96		70-130	0		20
1,2,3-Trichlorobenzene	83		86		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 09-10 Batch: WG487405-4 WG487405-5								
1,2,4-Trichlorobenzene	86		86		70-130	0		20
1,3,5-Trimethylbenzene	97		96		70-130	1		20
1,2,4-Trimethylbenzene	102		100		70-130	2		20
Ethyl ether	110		104		70-130	6		20
Isopropyl Ether	99		97		70-130	2		20
Ethyl-Tert-Butyl-Ether	95		92		70-130	3		20
Tertiary-Amyl Methyl Ether	93		90		70-130	3		20
1,4-Dioxane	**159**	Q	**156**	Q	70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	97		99		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG487405-7 WG487405-8 QC Sample: L1113256-03 Client ID: MW-5D												
Methylene chloride	ND	10	12	114		11	111		70-130	9		20
1,1-Dichloroethane	ND	10	12	121		12	117		70-130	0		20
Chloroform	ND	10	12	124		12	116		70-130	0		20
Carbon tetrachloride	ND	10	14	**136**	Q	14	**137**	Q	70-130	0		20
1,2-Dichloropropane	ND	10	13	128		12	118		70-130	8		20
Dibromochloromethane	ND	10	15	**154**	Q	14	**140**	Q	70-130	7		20
1,1,2-Trichloroethane	ND	10	13	**133**	Q	12	117		70-130	8		20
Tetrachloroethene	ND	10	11	112		10	105		70-130	10		20
Chlorobenzene	ND	10	11	113		10	103		70-130	10		20
Trichlorofluoromethane	ND	10	14	**136**	Q	13	**133**	Q	70-130	7		20
1,2-Dichloroethane	ND	10	13	130		12	120		70-130	8		20
1,1,1-Trichloroethane	ND	10	12	123		12	119		70-130	0		20
Bromodichloromethane	ND	10	14	**136**	Q	12	121		70-130	15		20
trans-1,3-Dichloropropene	ND	10	13	**131**	Q	12	118		70-130	8		20
cis-1,3-Dichloropropene	ND	10	12	119		11	109		70-130	9		20
1,1-Dichloropropene	ND	10	12	123		12	119		70-130	0		20
Bromoform	ND	10	15	**151**	Q	14	**136**	Q	70-130	7		20
1,1,2,2-Tetrachloroethane	ND	10	14	**137**	Q	12	118		70-130	15		20
Benzene	ND	10	12	123		12	116		70-130	0		20
Toluene	ND	10	12	116		11	108		70-130	9		20
Ethylbenzene	ND	10	12	121		11	110		70-130	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG487405-7 WG487405-8 QC Sample: L1113256-03 Client ID: MW-5D												
Chloromethane	ND	10	14	**141**	Q	14	**136**	Q	70-130	0		20
Bromomethane	ND	10	11	114		12	118		70-130	9		20
Vinyl chloride	ND	10	15	**154**	Q	15	**150**	Q	70-130	0		20
Chloroethane	ND	10	13	130		13	130		70-130	0		20
1,1-Dichloroethene	ND	10	12	124		12	122		70-130	0		20
trans-1,2-Dichloroethene	ND	10	12	121		12	118		70-130	0		20
Trichloroethene	31	10	44	130		43	121		70-130	2		20
1,2-Dichlorobenzene	ND	10	11	113		10	103		70-130	10		20
1,3-Dichlorobenzene	ND	10	11	114		10	102		70-130	10		20
1,4-Dichlorobenzene	ND	10	11	113		10	103		70-130	10		20
Methyl tert butyl ether	ND	10	9.1	91		9.1	91		70-130	0		20
p/m-Xylene	ND	20	24	122		22	109		70-130	9		20
o-Xylene	ND	20	22	113		21	103		70-130	5		20
cis-1,2-Dichloroethene	6.3	10	19	127		18	119		70-130	5		20
Dibromomethane	ND	10	13	**131**	Q	12	119		70-130	8		20
1,2,3-Trichloropropane	ND	10	14	**141**	Q	12	123		70-130	15		20
Styrene	ND	20	23	115		21	106		70-130	9		20
Dichlorodifluoromethane	ND	10	15	**149**	Q	14	**145**	Q	70-130	7		20
Acetone	ND	10	11	102		11	101		70-130	0		20
Carbon disulfide	ND	10	10	103		10	102		70-130	0		20
2-Butanone	ND	10	11	111		11	107		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG487405-7 WG487405-8 QC Sample: L1113256-03 Client ID: MW-5D												
4-Methyl-2-pentanone	ND	10	10	103		10	100		70-130	0		20
2-Hexanone	ND	10	10	104		10	104		70-130	0		20
Bromochloromethane	ND	10	12	118		11	112		70-130	9		20
Tetrahydrofuran	ND	10	10	102		10	101		70-130	0		20
2,2-Dichloropropane	ND	10	12	121		12	117		70-130	0		20
1,2-Dibromoethane	ND	10	13	129		11	111		70-130	17		20
1,3-Dichloropropane	ND	10	13	**131**	Q	11	114		70-130	17		20
1,1,1,2-Tetrachloroethane	ND	10	14	**145**	Q	13	**133**	Q	70-130	7		20
Bromobenzene	ND	10	12	118		11	106		70-130	9		20
n-Butylbenzene	ND	10	9.1	91		8.3	83		70-130	9		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	11	111		10	100		70-130	10		20
o-Chlorotoluene	ND	10	12	116		10	103		70-130	18		20
p-Chlorotoluene	ND	10	12	121		11	109		70-130	9		20
1,2-Dibromo-3-chloropropane	ND	10	9.4	94		9.6	97		70-130	2		20
Hexachlorobutadiene	ND	10	9.9	99		9.6	96		70-130	3		20
Isopropylbenzene	ND	10	11	115		10	105		70-130	10		20
p-Isopropyltoluene	ND	10	12	118		11	106		70-130	9		20
Naphthalene	ND	10	8.8	88		8.4	84		70-130	5		20
n-Propylbenzene	ND	10	12	115		10	104		70-130	18		20
1,2,3-Trichlorobenzene	ND	10	9.5	95		9.2	92		70-130	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NBHS
Project Number: 115058.000580.000008
Lab Number: L1113256
Report Date: 09/01/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG487405-7 WG487405-8 QC Sample: L1113256-03 Client ID: MW-5D												
1,2,4-Trichlorobenzene	ND	10	9.7	97		9.2	92		70-130	5		20
1,3,5-Trimethylbenzene	ND	10	11	113		10	102		70-130	10		20
1,2,4-Trimethylbenzene	ND	10	12	121		11	110		70-130	9		20
Ethyl ether	ND	10	10	103		10	105		70-130	0		20
Isopropyl Ether	ND	10	10	101		10	100		70-130	0		20
Ethyl-Tert-Butyl-Ether	ND	10	9.4	94		9.5	95		70-130	1		20
Tertiary-Amyl Methyl Ether	ND	10	9.4	94		9.5	95		70-130	1		20
1,4-Dioxane	ND	1000	1100	114		1300	129		70-130	17		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		106		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	100		102		70-130
Toluene-d8	100		101		70-130

Project Name: NBHS
Project Number: 115058.000580.000008

Lab Number: L1113256
Report Date: 09/01/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113256-01A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-01B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-02A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-02B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03C	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03D	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03E	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03F	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03G	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-03H	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-04A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-04B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-05A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-05B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-06A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-06B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-07A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-07B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-08A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-08B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-09A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-09B	Vial HCl preserved	A	N/A	3	Y	Absent	-
L1113256-10A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)
L1113256-10B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name:	NBHS	**Lab Number:**	L1113256
Project Number:	115058.000580.000008	**Report Date:**	09/01/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name:	NBHS	**Lab Number:**	L1113256
Project Number:	115058.000580.000008	**Report Date:**	09/01/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	NBHS	**Lab Number:**	L1113256
Project Number:	115058.000580.000008	**Report Date:**	09/01/11

REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 08-25-11

ALPHA Job #: L1113256

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: TRC
Address: 650 Suffolk St, Lowell MA 01854
Phone: 978-970-5600
Fax: 9
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBHS
Project Location: New Bedford, MA
Project #: 115058.000850.000008
Project Manager:
ALPHA Quote #:

Turn-Around Time

☒ Standard (5 Day TAT) ☐ RUSH (only confirmed if pre-approved!)
Date Due: 09/01/11 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 36320

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	GW-2 / GW-3

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration: ☐ Done ☒ Not needed ☐ Lab to do
Preservation: ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	Sample Specific Comments	Total # Bottles
13256-01	MW-33	8/24/11	1245	GW	JM/EW	X		2
02	MW-31	8/24/11	1300	GW		X		2
03	MW-5D	8/24/11	1640	GW		X	* MS/MSD here	~~6~~ 8
04	MW-5	8/24/11	1700	GW		X		2
05	MW-32	8/25/11	1520	GW		X		2
06	MW-28	8/25/11	1235	GW		X		2
07	MW-27D	8/25/11	1300	GW		X		2
08	DUP-1	8/25/11	—	GW		X		2
09	Trip Blank					X		1
10	MW-27R	8/25/11	1450	GW	JM/EW	X		2
				Container Type		V		
				Preservative		B		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Emilie J Works	8/25/11 1835	Katie Murr	8/25/11 1835

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:09011117:16

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1113256

Instrument ID: Quimby.i Calibration Date: 30-AUG-2011 Time: 15:27

Lab File ID: 0830N02 Init. Calib. Date(s): 17-AUG-2 17-AUG-2

Sample No: wg487252-1,31,1 Init. Calib. Times : 05:43 09:23

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.37386	.26616	.1	29	20	F
chloromethane	.5802	.51692	.1	11	20	
vinyl chloride	.39377	.38786	.1	2	20	
bromomethane	100	83.257	.1	17	20	
chloroethane	.30072	.29199	.1	3	20	
trichlorofluoromethane	.54606	.53474	.1	2	20	
ethyl ether	.12439	.12656	.05	-2	20	
acetone	100	107	.1	-7	20	
1,1,-dichloroethene	.32633	.30376	.1	7	20	
methylene chloride	.34475	.33806	.1	2	20	
carbon disulfide	.8958	.83785	.1	6	20	
methyl tert butyl ether	.48383	.46415	.1	4	20	
trans-1,2-dichloroethene	.35286	.32944	.1	7	20	
Diisopropyl Ether	1.0940	1.0995	.05	-1	20	
1,1-dichloroethane	.71678	.71164	.2	1	20	
Ethyl-Tert-Butyl-Ether	.73421	.72554	.05	1	20	
2-butanone	.06907	.07613	.1	-10	20	F
2,2-dichloropropane	.38529	.39257	.05	-2	20	
cis-1,2-dichloroethene	.36818	.35507	.1	4	20	
chloroform	.59849	.59284	.2	1	20	
bromochloromethane	.13603	.1296	.05	5	20	
tetrahydrofuran	100	102	.05	-2	20	
1,1,1-trichloroethane	.47225	.46092	.1	2	20	
1,1-dichloropropene	.51665	.49458	.05	4	20	
carbontetrachloride	.31278	.32242	.1	-3	20	
Tertiary-Amyl Methyl Ether	.48438	.47298	.05	2	20	
1,2-dichloroethane	.38581	.39463	.1	-2	20	
benzene	1.5485	1.52	.5	2	20	
trichloroethene	.37658	.34644	.2	8	20	
1,2-dichloropropane	.36342	.3585	.1	1	20	
bromodichloromethane	.3247	.33471	.2	-3	20	
1,4-dioxane	.00082	.00089	.05	-9	20	F
dibromomethane	.12992	.12924	.05	1	20	
4-methyl-2-pentanone	100	106	.1	-6	20	
cis-1,3-dichloropropene	.38862	.37271	.2	4	20	
toluene	1.3038	1.2093	.4	7	20	
trans-1,3-dichloropropene	.35929	.38496	.1	-7	20	
1,1,2-trichloroethane	.21817	.22039	.1	-1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1113256

Instrument ID: Quimby.i Calibration Date: 30-AUG-2011 Time: 15:27

Lab File ID: 0830N02 Init. Calib. Date(s): 17-AUG-2 17-AUG-2

Sample No: wg487252-1,31,1 Init. Calib. Times : 05:43 09:23

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.13002	.13669	.1	-5	20	
1,3-dichloropropane	.47732	.48825	.05	-2	20	
tetrachloroethene	.53023	.47228	.2	11	20	
chlorodibromomethane	.18117	.21899	.1	-21	20	F
1,2-dibromoethane	.2155	.21697	.1	-1	20	
chlorobenzene	1.3466	1.2203	.5	9	20	
1,1,1,2-tetrachloroethane	.26384	.30202	.05	-14	20	
ethyl benzene	2.4891	2.3551	.1	5	20	
p/m xylene	1.0215	.96677	.1	5	20	
o xylene	.9499	.89623	.3	6	20	
styrene	1.5248	1.4757	.31	3	20	
isopropylbenzene	2.4458	2.2403	.1	8	20	
bromoform	100	125	.1	-25	20	F
1,1,2,2,-tetrachloroethane	.43634	.44752	.3	-3	20	
1,2,3-trichloropropane	.34502	.37191	.05	-8	20	
n-propylbenzene	4.6096	4.3221	.05	6	20	
bromobenzene	.8831	.82993	.05	6	20	
1,3,5-trimethybenzene	3.2905	3.1451	.05	4	20	
2-chlorotoluene	3.0873	3.0053	.05	3	20	
4-chorotoluene	2.9533	2.9601	.05	0	20	
tert-butylbenzene	2.6614	2.4485	.05	8	20	
1,2,4-trimethylbenzene	3.2920	3.3423	.05	-2	20	
sec-butylbenzene	3.7097	3.4022	.05	8	20	
p-isopropyltoluene	2.9234	2.9190	.05	0	20	
1,3-dichlorobenzene	1.7450	1.6527	.6	5	20	
1,4-dichlorobenzene	1.7677	1.6738	.5	5	20	
n-butylbenzene	2.9513	2.8925	.05	2	20	
1,2-dichlorobenzene	1.4796	1.4175	.4	4	20	
1,2-dibromo-3-chloropropane	.14398	.14512	.05	-1	20	
1,2,4-trichlorobenzene	.55771	.5323	.2	5	20	
hexachlorobutadiene	.27399	.25423	.05	7	20	
naphthalene	.78587	.71559	.05	9	20	
1,2,3-trichlorobenzene	.36707	.35394	.05	4	20	
dibromofluoromethane	.21015	.2125	.05	-1	20	
1,2-dichloroethane-d4	.2278	.22805	.05	0	20	
toluene-d8	1.3242	1.3216	.05	0	20	
4-bromofluorobenzene	.87429	.9027	.05	-3	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1113256

Instrument ID: Quimby.i Calibration Date: 31-AUG-2011 Time: 08:11

Lab File ID: 0831A01 Init. Calib. Date(s): 17-AUG-2 17-AUG-2

Sample No: 8260 CCAL Init. Calib. Times : 05:43 09:23

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.37386	.24045	.1	36	20	F
chloromethane	.5802	.49145	.1	15	20	
vinyl chloride	.39377	.35451	.1	10	20	
bromomethane	100	84.107	.1	16	20	
chloroethane	.30072	.28176	.1	6	20	
trichlorofluoromethane	.54606	.5038	.1	8	20	
ethyl ether	.12439	.12543	.05	-1	20	
acetone	100	112	.1	-12	20	
1,1,-dichloroethene	.32633	.2804	.1	14	20	
methylene chloride	.34475	.31767	.1	8	20	
carbon disulfide	.8958	.79243	.1	12	20	
methyl tert butyl ether	.48383	.4478	.1	7	20	
trans-1,2-dichloroethene	.35286	.30598	.1	13	20	
Diisopropyl Ether	1.0940	1.0693	.05	2	20	
1,1-dichloroethane	.71678	.67691	.2	6	20	
Ethyl-Tert-Butyl-Ether	.73421	.70661	.05	4	20	
2-butanone	.06907	.07883	.1	-14	20	F
2,2-dichloropropane	.38529	.35901	.05	7	20	
cis-1,2-dichloroethene	.36818	.34687	.1	6	20	
chloroform	.59849	.58553	.2	2	20	
bromochloromethane	.13603	.12535	.05	8	20	
tetrahydrofuran	100	104	.05	-4	20	
1,1,1-trichloroethane	.47225	.4263	.1	10	20	
1,1-dichloropropene	.51665	.46179	.05	11	20	
carbontetrachloride	.31278	.28695	.1	8	20	
Tertiary-Amyl Methyl Ether	.48438	.46882	.05	3	20	
1,2-dichloroethane	.38581	.38983	.1	-1	20	
benzene	1.5485	1.4864	.5	4	20	
trichloroethene	.37658	.34384	.2	9	20	
1,2-dichloropropane	.36342	.36006	.1	1	20	
bromodichloromethane	.3247	.32681	.2	-1	20	
1,4-dioxane	.00082	.00124	.05	-51	20	F
dibromomethane	.12992	.13242	.05	-2	20	
4-methyl-2-pentanone	100	112	.1	-12	20	
cis-1,3-dichloropropene	.38862	.36325	.2	7	20	
toluene	1.3038	1.2268	.4	6	20	
trans-1,3-dichloropropene	.35929	.37972	.1	-6	20	
1,1,2-trichloroethane	.21817	.22663	.1	-4	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1113256

Instrument ID: Quimby.i Calibration Date: 31-AUG-2011 Time: 08:11

Lab File ID: 0831A01 Init. Calib. Date(s): 17-AUG-2 17-AUG-2

Sample No: 8260 CCAL Init. Calib. Times : 05:43 09:23

Compound	RRF	RRF	MIN RRF	%D	MAX %D
2-hexanone	.13002	.14403	.1	-11	20
1,3-dichloropropane	.47732	.49726	.05	-4	20
tetrachloroethene	.53023	.469	.2	12	20
chlorodibromomethane	.18117	.21463	.1	-18	20
1,2-dibromoethane	.2155	.21935	.1	-2	20
chlorobenzene	1.3466	1.2280	.5	9	20
1,1,1,2-tetrachloroethane	.26384	.2892	.05	-10	20
ethyl benzene	2.4891	2.3918	.1	4	20
p/m xylene	1.0215	.98695	.1	3	20
o xylene	.9499	.91166	.3	4	20
styrene	1.5248	1.4915	.31	2	20
isopropylbenzene	2.4458	2.2636	.1	7	20
bromoform	100	112	.1	-12	20
1,1,2,2,-tetrachloroethane	.43634	.44324	.3	-2	20
1,2,3-trichloropropane	.34502	.37012	.05	-7	20
n-propylbenzene	4.6096	4.4077	.05	4	20
bromobenzene	.8831	.83563	.05	5	20
1,3,5-trimethybenzene	3.2905	3.1338	.05	5	20
2-chlorotoluene	3.0873	2.9817	.05	3	20
4-chorotoluene	2.9533	2.9566	.05	0	20
tert-butylbenzene	2.6614	2.4587	.05	8	20
1,2,4-trimethylbenzene	3.2920	3.3137	.05	-1	20
sec-butylbenzene	3.7097	3.4952	.05	6	20
p-isopropyltoluene	2.9234	2.9337	.05	0	20
1,3-dichlorobenzene	1.7450	1.6451	.6	6	20
1,4-dichlorobenzene	1.7677	1.6724	.5	5	20
n-butylbenzene	2.9513	2.9487	.05	0	20
1,2-dichlorobenzene	1.4796	1.3870	.4	6	20
1,2-dibromo-3-chloropropane	.14398	.13882	.05	4	20
1,2,4-trichlorobenzene	.55771	.49882	.2	11	20
hexachlorobutadiene	.27399	.24307	.05	11	20
naphthalene	.78587	.64709	.05	18	20
1,2,3-trichlorobenzene	.36707	.32683	.05	11	20
dibromofluoromethane	.21015	.21225	.05	-1	20
1,2-dichloroethane-d4	.2278	.23362	.05	-3	20
toluene-d8	1.3242	1.3473	.05	-2	20
4-bromofluorobenzene	.87429	.89973	.05	-3	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1113256

Instrument ID: Quimby.i Calibration Date: 01-SEP-2011 Time: 07:11

Lab File ID: 0901A01 Init. Calib. Date(s): 17-AUG-2 17-AUG-2

Sample No: 8260 CCAL Init. Calib. Times : 05:43 09:23

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.37386	.26702	.1	29	20	F
chloromethane	.5802	.53699	.1	7	20	
vinyl chloride	.39377	.38827	.1	1	20	
bromomethane	100	80.313	.1	20	20	
chloroethane	.30072	.3126	.1	-4	20	
trichlorofluoromethane	.54606	.54079	.1	1	20	
ethyl ether	.12439	.1374	.05	-10	20	
acetone	100	108	.1	-8	20	
1,1,-dichloroethene	.32633	.31066	.1	5	20	
methylene chloride	.34475	.34594	.1	0	20	
carbon disulfide	.8958	.77216	.1	14	20	
methyl tert butyl ether	.48383	.44438	.1	8	20	
trans-1,2-dichloroethene	.35286	.32694	.1	7	20	
Diisopropyl Ether	1.0940	1.086	.05	1	20	
1,1-dichloroethane	.71678	.71403	.2	0	20	
Ethyl-Tert-Butyl-Ether	.73421	.69636	.05	5	20	
2-butanone	.06907	.07804	.1	-13	20	F
2,2-dichloropropane	.38529	.31394	.05	19	20	
cis-1,2-dichloroethene	.36818	.35342	.1	4	20	
chloroform	.59849	.58343	.2	3	20	
bromochloromethane	.13603	.13102	.05	4	20	
tetrahydrofuran	100	104	.05	-4	20	
1,1,1-trichloroethane	.47225	.36117	.1	24	20	F
1,1-dichloropropene	.51665	.48987	.05	5	20	
carbontetrachloride	.31278	.21377	.1	32	20	F
Tertiary-Amyl Methyl Ether	.48438	.45152	.05	7	20	
1,2-dichloroethane	.38581	.40797	.1	-6	20	
benzene	1.5485	1.5477	.5	0	20	
trichloroethene	.37658	.35558	.2	6	20	
1,2-dichloropropane	.36342	.363	.1	0	20	
bromodichloromethane	.3247	.24745	.2	24	20	F
1,4-dioxane	.00082	.0013	.05	-59	20	F
dibromomethane	.12992	.131	.05	-1	20	
4-methyl-2-pentanone	100	104	.1	-4	20	
cis-1,3-dichloropropene	.38862	.28492	.2	27	20	F
toluene	1.3038	1.2413	.4	5	20	
trans-1,3-dichloropropene	.35929	.26869	.1	25	20	F
1,1,2-trichloroethane	.21817	.22011	.1	-1	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1113256

Instrument ID: Quimby.i Calibration Date: 01-SEP-2011 Time: 07:11

Lab File ID: 0901A01 Init. Calib. Date(s): 17-AUG-2 17-AUG-2

Sample No: 8260 CCAL Init. Calib. Times : 05:43 09:23

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
2-hexanone	.13002	.13112	.1	-1	20	
1,3-dichloropropane	.47732	.49017	.05	-3	20	
tetrachloroethene	.53023	.48894	.2	8	20	
chlorodibromomethane	.18117	.13603	.1	25	20	F
1,2-dibromoethane	.2155	.18762	.1	13	20	
chlorobenzene	1.3466	1.2507	.5	7	20	
1,1,1,2-tetrachloroethane	.26384	.18814	.05	29	20	F
ethyl benzene	2.4891	2.4720	.1	1	20	
p/m xylene	1.0215	1.0164	.1	0	20	
o xylene	.9499	.93254	.3	2	20	
styrene	1.5248	1.5312	.31	0	20	
isopropylbenzene	2.4458	2.3116	.1	5	20	
bromoform	100	70.298	.1	30	20	F
1,1,2,2,-tetrachloroethane	.43634	.40419	.3	7	20	
1,2,3-trichloropropane	.34502	.35822	.05	-4	20	
n-propylbenzene	4.6096	4.4137	.05	4	20	
bromobenzene	.8831	.82191	.05	7	20	
1,3,5-trimethybenzene	3.2905	3.2069	.05	3	20	
2-chlorotoluene	3.0873	2.9941	.05	3	20	
4-chorotoluene	2.9533	2.9258	.05	1	20	
tert-butylbenzene	2.6614	2.4616	.05	8	20	
1,2,4-trimethylbenzene	3.2920	3.3427	.05	-2	20	
sec-butylbenzene	3.7097	3.4866	.05	6	20	
p-isopropyltoluene	2.9234	2.9080	.05	1	20	
1,3-dichlorobenzene	1.7450	1.6424	.6	6	20	
1,4-dichlorobenzene	1.7677	1.6626	.5	6	20	
n-butylbenzene	2.9513	2.9174	.05	1	20	
1,2-dichlorobenzene	1.4796	1.3853	.4	6	20	
1,2-dibromo-3-chloropropane	.14398	.14098	.05	2	20	
1,2,4-trichlorobenzene	.55771	.47736	.2	14	20	
hexachlorobutadiene	.27399	.22925	.05	16	20	
naphthalene	.78587	.62374	.05	21	20	F
1,2,3-trichlorobenzene	.36707	.30607	.05	17	20	
dibromofluoromethane	.21015	.20283	.05	3	20	
1,2-dichloroethane-d4	.2278	.23728	.05	-4	20	
toluene-d8	1.3242	1.3146	.05	1	20	
4-bromofluorobenzene	.87429	.87474	.05	0	20	

FORM VII MCP-8260-10

APPENDIX B

COPIES OF UNIFORM HAZARDOUS WASTE MANIFESTS

XXXXX

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP 5 0 8 9 9 7 4 5 1 1
2. Page 1 of 1
3. Emergency Response Phone: 800 966 9282
4. Manifest Tracking Number: 004515959 FLE

5. Generator's Name and Mailing Address
City Of New Bedford
133 Williams Street Room 304
New Bedford, MA 02740
Generator's Phone: 508-961-4576 Cheryl Henlin

Generator's Site Address (if different than mailing address)
City of New Bedford - 230 Hathaway
230 Hathaway Boulevard
New Bedford, MA 02740

6. Transporter 1 Company Name: Triumvirate Environmental, Inc.
U.S. EPA ID Number: M A D 9 8 5 2 8 6 9 8 8

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
United Oil Recovery, Inc.
136 Gracey Ave.
Meriden, CT 06450
Facility's Phone: 203-238-6751
U.S. EPA ID Number: C T D 0 2 1 8 1 6 8 8 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	NA3082, Hazardous waste, liquid, n.o.s. 9, III (trichloroethylene) (RQ: F002)	0 0 1	T T	609	G	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 - (1 x Tanker) Well Development Water 2- 3- 4-
APPROVAL CODE P0222110BLMSO

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Cheryl Henlin
Signature: Cheryl Henlin
Month Day Year: 07 28 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Dow
Signature:
Month Day Year: 07 28 11
Transporter 2 Printed/Typed Name: Jeff Dow
Signature:
Month Day Year: 8 2 11

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection
9b.1 rejected due to Polychlorinated Biphenyl Concentrations of 160ppm
AC #1254 Back to the Generator
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Cheryl Henlin
Month Day Year: 08 05 11

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

XXXXX

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP 5 0 8 9 9 7 4 5 1 1
2. Page 1 of: 1
3. Emergency Response Phone: 800 966 9282
4. Manifest Tracking Number: 005002169 FLE

5. Generator's Name and Mailing Address
City Of New Bedford
133 Williams Street Room 304
New Bedford, MA 02740
Generator's Phone: 508-961-4576 Cheryl Henlin

Generator's Site Address (if different than mailing address)
City of New Bedford - 230 Hathaway
230 Hathaway Boulevard
New Bedford, MA 02740

6. Transporter 1 Company Name: Triumvirate Environmental, Inc.
U.S. EPA ID Number: M A D 9 8 5 2 8 6 9 8 8

7. Transporter 2 Company Name: FIRMINI VACUUM TRK SERVICE
U.S. EPA ID Number: NYD982792811

8. Designated Facility Name and Site Address
CWM Chemical Services
1550 Balmer Road PO Box 200
Model City, NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	NA3082, Hazardous waste, liquid, n.o.s. 9, III (RQ: Polychlorinated Biphenyls, Trichloroethylene)	0 0 2	D M	00300	K	MA02	B007	F002
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1 - (2 x 55) PCB Contaminated Water : Out of Service Date: 8/19/2011 Unique ID#: T741291234567 6-1, 2- T741291234567 6-2 3-
4 - NY 302880 81646995

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Cheryl Henlin
Signature: Cheryl Henlin
Month 8 Day 16 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MARK Eagley
Signature:
Month 8 Day 16 Year 11
Transporter 2 Printed/Typed Name: DALE DOMENICO
Signature:
Month 8 Day 19 Year 11

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H135 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Richard LA BEND
Signature:
Month 08 Day 30 Year 11

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

(2)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP 5 0 8 9 9 7 4 5 1 1
2. Page 1 of: 1
3. Emergency Response Phone: 800 966 9282
4. Manifest Tracking Number: 005002214 FLE

5. Generator's Name and Mailing Address
City Of New Bedford
133 Williams Street Room 304
New Bedford, MA 02740
Generator's Phone: 508-961-4576 Cheryl Henlin

Generator's Site Address (if different than mailing address)
City of New Bedford - 230 Hathaway
230 Hathaway Boulevard
New Bedford, MA 02740

6. Transporter 1 Company Name: Triumvirate Environmental, Inc. — U.S. EPA ID Number: MAD985286988

7. Transporter 2 Company Name: FINAL'S UNIQUE TANK SERVICE — U.S. EPA ID Number: NYD982792814

8. Designated Facility Name and Site Address
CWM Chemical Services
1550 Balmer Road PO Box 200
Model City, NY 14107
Facility's Phone: (716) 754-8231 — U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous waste, liquid, n.o.s. 9, III (RQ: Polychlorinated Biphenyls, Trichloroethylene)	0 0 3	D M	0450	K	~~MA02~~	~~B007~~	~~F002~~
X	2. NA3082, Hazardous waste, liquid, n.o.s. 9, III (RQ: Polychlorinated Biphenyls, Trichloroethylene)	0 0 2	T P	0500	K	~~MA02~~	~~B007~~	~~F002~~
X	3. NA3077, Hazardous waste, solid, n.o.s. 9, III (RQ: Polychlorinated Biphenyls)	0 0 1	D M	0200	K	~~MA02~~	~~B007~~	
	4.							

14. Special Handling Instructions and Additional Information
NY302580 81646995
1 - (3 x 55) PCB Contaminated Water : Out of Service 8/19/2011 Unique ID# 716488192011-1c through 716488192011-3c 2 -
(2 x Tote) PCB Contaminated Water : Out of Service 8/19/2011 Unique ID# 716488192011-1b through 716488192011-2b NY303580
(1 x 55) NY302996 : Out of Service 8/19/2011 Unique ID# 716488192011-1a 4 -

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Cheryl Henlin — Signature: Cheryl Henlin — Month 08 Day 19 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Eppley — Signature: M. — Month 8 Day 19 Year 11
Transporter 2 Printed/Typed Name: DALE DOMINEK — Signature: — Month 8 Day 29 Year 11

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Line 1 and 2 - Item 13 change B007 to F002. Line 3 Item 13 add F002. 9/8/11 [illegible]
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H135 2. H135 3. H141 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Richard LA BENE — Signature: — Month 08 Day 3 Year 11

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

(4)

XXXXX

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP 5 0 8 9 9 7 4 5 1 1
2. Page 1 of 1
3. Emergency Response Phone: 800 966 9282
4. Manifest Tracking Number: 005002215 FLE

5. Generator's Name and Mailing Address
City Of New Bedford
133 Williams Street Room 304
New Bedford, MA 02740
Generator's Phone: 508-961-4576 Cheryl Henlin

Generator's Site Address (if different than mailing address)
City of New Bedford - 230 Hathaway
230 Hathaway Boulevard
New Bedford, MA 02740

6. Transporter 1 Company Name: Triumvirate Environmental, Inc.
U.S. EPA ID Number: M A D 9 8 5 2 8 6 9 8 8

7. Transporter 2 Company Name: FRANK'S VACUUM TANK SERVICE
U.S. EPA ID Number: NYD982798214

8. Designated Facility Name and Site Address
CWM Chemical Services
1550 Balmer Road PO Box 200
Model City, NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	NA3077, Hazardous waste, solid, n.o.s 9, III (RQ: Polychlorinated Biphenyls)	001	CF	00075	K	MA02	B007	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1- (1 x Cubic Yard Box) NY302896 : Out of Service Date: 8/23/2011 Unique ID# 716488242011 2- 3-
4- 81646995

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Cheryl Henlin
Signature: Cheryl Henlin
Month 08 Day 24 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Eppley
Signature:
Month 8 Day 24 Year 11
Transporter 2 Printed/Typed Name: DALE DOMENICK
Signature:
Month 8 Day 29 Year 11

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Richard LA BENO
Signature:
Month 08 Day 30 Year 11

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

APPENDIX C

GROUNDWATER MONITORING SAMPLING LOGS

Location NBHS MECH ROOM Date 7/27

Project / Client CITY OF NEW BEDFORD

GW SAMPLE MW-28 / MW-32 / MW-27R / MW27D

ONSITE @ 16:30 CHECK & CALIBRATE YSIs & PID.

GWT MEASUREMENTS:	DTW	PUC/GS	TD PUC.	DTP	PUC.	PID
MW-32	2.5	2.65	8.2	ND		43
MW-28	2.72	2.85	11.5	ND		4.5
MW-27 D	2.55	2.82	16.45	ND		1.1-2.1
MW-27 R	2.38	2.76	10.65	10.65		2.5

(0.01" PRODUCT)

MW-32 SAMPLE MINI PRO @ 6' BGS.

PUMP @ 130 ml/min

GW. STABLE @ 2.6' BGS (PUC)

TIME	TEMP.	SP. COND	ORP	pH	DO	TURB.
18:30	23.97	442	-169.6	6.56	1.04	1.79
18:35	23.95	442	-169.1	6.56	1.01	0.82
18:40	23.94	442	-169.0	6.56	0.96	0.63
18:45	23.94	441	-168.5	6.57	0.97	0.62
18:50	23.94	441	-166	6.57	0.96	0.61
18:55	23.94	440	-164	6.57	0.95	0.60

19:00 SAMPLED MW-32 2 VOA 8260 VOCs.

BROKE DOWN EQUIPMENT

DECON PUMP. DISPOSE OF TUBING

& BLADDER. RELOCATE EQUIPMENT

TO MW-28

Location NBHS MECH RM. Date 7/27

Project / Client CITY OF NEW BEDFORD

GW SAMPLING.

MW-27 D SAMPLE PRO @ 13.5' BGS.

PUMP @ 110 ml/min

GW STABLE @ 2.6' BGS (PUC)

TIME	TEMP	SP. COND.	ORP	pH	DO	TURB.
18:33	20.77	331	26.8	5.96	0.52	2.89
18:38	20.55	327	33	5.96	0.39	2.03
18:43	20.49	324	36	5.97	0.35	2.02
18:48	20.45	322	38	5.97	0.33	1.89
18:53	20.42	319	40	5.97	0.31	1.69
18:58	20.40	316	42	5.96	0.31	1.64

19:05 SAMPLED MW-27D. 2 VOA 8260 VOCs

BROKE DOWN EQUIPMENT DECON PUMP.

RELOCATE EQUIPMENT TO MW 27 D.

MW-27R. SAMPLE PRO @ 10' BGS.

PUMP @ 160 ml/min

GW STABLE NO DISPLACEMENT

TIME	TEMP	SP. COND	ORP.	pH	DO	TURB.
19:20	22.10	374	-186	6.25	0.23	32
19:25	22.09	375	-172	6.25	0.22	25
19:30	21.99	377	-187	6.26	0.20	18
19:35	21.92	378	-193	6.26	0.19	12
19:40	21.90	378	-194.5	6.25	0.20	11.04
19:45	21.87	380	-192	6.26	0.21	11.00
19:50	21.87.	381	-191	6.26	0.21	11.00

19:55 SAMPLED MW 27 R + DUP.1 4 VOA

Location NBHS MECH RM. Date 7/27

Project / Client CITY OF NEW BEDFORD

GW SAMPLING

MW-28 SAMPLE MINI PRO @ 8' BGS

PUMP @ 35 ml/min

GW STABLE @ 2.78 BGS (PVC)

TIME	TEMP	SP.COND	ORP	pH	DO	TURB
19:28	24.37	330	-168	6.04	1.48	90
19:33	24.34	328	-182	6.01	1.08	56
19:38	24.29	328	-190	6.00	0.91	41
19:43	24.26	326	-195	6.00	0.81	26
19:48	24.24	326	-200	5.99	0.71	19
19:53	24.23	325	-203	5.99	0.66	14
19:58	24.22	325	-204	5.99	0.60	11.2
20:03	24.22	326	-204	5.99	0.58	10.7
20:08	24.22	326	-205	6.00	0.54	7.5
20:13	24.21	326	-205	6.00	0.52	7.1
20:18	24.21	326	-205	6.00	0.50	7.0

20:20 SAMPLED MW-28 2 VOA 8260 VOCs.

20:30 - 21:30 HOUSE KEEPING

DECON OF EQUIPMENT

& COC SAMPLE PREP.

21:45 JF DEMOB FROM

NBHS FOR DAY

SJCF 7/27

Location NBHS MECH ROOM Date 7/28

Project / Client CITY OF NEW BEDFORD

TEI VACTOR EVENT MW 27R.

60s-80° SUNNY LIGHT BREEZE FROM NE

8:15 JF ARRIVE NBHS MECH ROOM.

PREP MANIFOLD & P. PUMP. OPEN WELLS. DTW.

MW 27R - PID 2.5 ppm

MW 32 - PID 28 ppm

OPEN 3 ADDITIONAL NEARBY MWs.

8:30 TEI JEFF ONSITE SETUP TO CONNECT TO MANIFOLD

9:00 BEGIN P. PUMP ON MW-32

TEI VACTOR TRUCK #7051

BEGIN VACTOR 9:15 VAC. INITIAL 15-19" Hg

10 GAL FROM MW-32

CHERYL HENLEY ON SITE 9:20-9:30

WILL RETURN BETWEEN 15:30-16:00

TO REVIEW & SIGN MANIFEST

10:00 30 GAL FROM MW-32 CYCLE & SURGE PUMP @ MW-27R.

10:45 15 GAL FROM MW-32 CYCLE & SURGE PUMP @ MW-27R.

12:00 30 GAL FROM MW-32 CYCLE SURGE PUMP @ MW 27-R

13:00 20 GAL FROM MW-32 CYCLE SURGE VAC @ MW 27-R

14:00 15 GAL FROM MW-32 CYCLE SURGE VAC @ MW 27 R

ALPH ONSITE TO PICK UP GW SAMPLES. FROM 7/27 COLLECTION EVENT

Location NBHS MECH RM Date 7/28

Project / Client CITY OF NEW BEDFORD

TEI VACTOR EXTRACTION EVENT MW27R

ALSO DELIVERS 1 SET OF VOAS FOR VACTOR TANK COMPOSITE GRAB AT END OF TODAYS VAC. EVENT.

14:25 VAC @ 12.3" Hg

NOTE REDUCED T DUE TO LOWER GW TABLE RESULTING IN SIGNIFICANTLY REDUCED LOWER YIELDS FROM MW-27R & MW-32.

15:00 20 GAL FROM MW-32 CYCLE VAC ON MW-27R

15:50 CHERYL ON SITE TO SIGN MANIFEST

(VACTOR CAPACITY 2300 GAL)

15:50 GUAGE EST. JUST UNDER 1/4 FULL EST ~ 500 GAL

16:00 15 GAL FROM MW-32 FINAL SURGE 27R

16:05-16:10 GUAGE STICK VACTOR 600 GAL. RECOVERED

COLLECT VACTOR TANK SAMPLE VC072811 2 VOA FOR 8260 VOCs

NOTE ABUNDANT OIL RESIDUALS IN VACTOR APPARENT ON BAILER

16:30- PULL & CLEAN MANIFOLD (HOUSEKEEPING)

17:00 INSERT 8' ABSORBENT SOCK IN MW27R.

DP TO ALPHA LAB END OF DAY JCF.

Location NBHS MECH RM. Date 8/2/11

Project / Client CITY OF NEW BEDFORD

GW RESAMPLE MECH ROOM.

ONSITE @ 10 AM CHECK & CAL YSI & PID.

	DTW	PVC/GS	DTP	PID	TD.
MW-28	2.91	3.05	ND	4.2	11.5
MW-32	2.67	2.84	ND	23.4	8.2
MW-27R	2.64	3.0	ND. SOCK	2.3	10.66

MW-32 MINI PRO @ 6' BGS

11:10 PUMP @ 125 ml/min GW STABLE @ 2.8 BGS (PVC)

TIME	TEMP	SP.COND	DO	ORP	pH	TURB
11:40	23.88	431	2.14	-89	6.57	1.6
11:45	23.89	431	2.13	-93	6.57	1.3
11:50	23.89	431	2.14	-91	6.57	1.25
11:55	23.87	430	2.14	-91	6.57	1.2
12:00	23.86	430	2.13	-91	6.57	1.2

12:05 SAMPLED MW-32 2 VOAs 8260 VOCs

PLUS DUP. 13:05

MW-28 MINI PRO @ 9' BGS

12:50 PUMP @ 35 ml/min GW STABLE @ 2.8 BGS (PVC)

TIME	TEMP	SP.COND.	DO	ORP	pH	TURB
13:20	25.32	325	0.44	79	6.0	5.54
13:25	25.36	325	0.43	73	6.0	5.59

Location NBHS MECH RM. Date 8/2/11

Project / Client CITY OF NEW BEDFORD
GW RESAMPLE EVENT MECH RM.

MW-28 CONT.

TIME	TEMP	SP.COND.	D.O.	ORP	pH	TURB.
13:30	25.36	325	0.43	74	6.00	5.6
13:35	25.37	325	0.42	69	6.00	5.7
13:40	25.37	325	0.42	68.8	6.00	5.72
13:45	25.37	325	0.42	69.8	6.00	5.75
13:50	25.37	325	0.41	70	6.00	5.55
13:55	25.37	325	0.41	71	6.00	5.51

14:00 SAMPLED MW-28 2 VOAs FOR VOC 8260

MW-27R SAMPLE PRD @ 8' BGS

13:10 PUMP @ 150 ml/min GW STABLE @ 2.8 (PVC)

TIME	TEMP	SP. COND	D.O.	ORP	pH	TURB
13:40	22.72	375	0.47	-136	6.25	13.2
13:45	22.55	376	0.35	-142	6.24	12.0
13:50	22.45	376	0.33	-161	6.24	12.4
13:55	22.23	381	0.23	-268	6.27	5.75
14:00	22.07	384	0.16	-263	6.27	4.87
14:05	22.02	385	0.16	-250	6.26	4.2
14:10	21.99	386	0.17	-245	6.26	3.6
14:15	21.98	386	0.18	-240	6.26	3.5
14:20	21.98	386	0.2	-236	6.25	3.4
14:25	21.99	386	0.21	-233	6.25	3.3

14:30 SAMPLED MW 27R 2 VOA

14:40 - 15:30 HOUSEKEEPING & DEMOB.

JF 15:30

Location NBHS MECH RM. Date 8/2/11

Project / Client CITY OF NEW BEDFORD.
GW RESAMPLE / MECH RM. PCB ISSUES.

15:40 AL REPORTS THAT TEI DETECTED PCBs IN VACTOR LOAD @ 100 PPM TEI WILL BE RETURNING VACTOR CONTENTS TO SITE. (TANK WAS DIRTY ON ARRIVAL TO NB)

16:00 JF TO COLLECT GW SAMPLES FROM MW 27R & MW-32 FOR PCBs By 8082 & TPH FINGERPRINT 8100M GC/MS. JF CALL C.H. & J.A DISCUSS OPTIONS

17:00 JF OBTAINS GLASSWARE & RETURN TO NBHS TO COLLECT ADDITIONAL TPH & PCB SAMPLES.

17:00 - 17:30 JF SETUP & SAMPLE AT MW-32 2 1L FOR TPH & 2 1L FOR PCBs

17:30 - 18:00 JF SETUP & SAMPLE AT MW-27R 2-1L FOR TPH & 2-1L FOR PCBs.

18:00 - 18:30 JF DEMOB FROM NBHS TO ALPHA TO OBTAIN ADDITIONAL GLASSWARE IN ORDER TO SAMPLE VACTOR CONTENTS / EFFLUENT NAPL & WATER UPON RETURN TO SITE TOMORROW

JCF 8/2/11

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/24/11	Sheet 1 of 1

TRC Personnel: J. McRobbie, E. Wachtel Well Identification: MW-5

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) NA ft. Well Depth 12 ft. [X] top of riser [ ] top of casing [ ] measured [X] historical 10' Screen

Riser Stick-up (from ground) NA ft. Water Depth 3.02 ft. LNAPL/DNAPL Depth = ____ Thickness =

WELL DIAMETER [ ] 2 inch [ ] 4 inch [ ] 6 inch [ ] 1 inch

WELL MATERIAL [X] PVC [ ] SS [ ] ____

LOW FLOW DATA

Depth of pump intake: ~7.5'

Static water level after pump put into well

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: 45 mL/min

PID SCREENING DATA

Background	0.1
Well Mouth	0.2

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals) 1640

Time	1540	1550	1610	1620	1630	1635	1650	1655		
Temp. (C)	29.37	29.30	29.14	29.24	29.13	29.10	29.25	29.36		
Conduct. (µmhos/cm)	0.331	0.588	0.583	0.582	0.581	0.580	0.580	0.581		
DO (mg/l)	1.90	1.36	1.31	0.86	0.97	0.72	0.74	0.74		
pH (Std. Units)	6.42	6.31	6.37	6.30	6.30	6.31	6.30	6.29		
ORP (millivolts)	-1.0	-0.6	-14.5	-10.9	-8.9	-8.5	-8.1	-7.9		
Turb. (NTU)	49.8	33.6	23.7	14.4	11.0	9.88	9.28	9.03		
Flow (ml/min)	45	45	45	45	45	45	45	45		
Depth To Water (ft)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20		
Time										
Temp. (C)										
Conduct. (µmhos/cm)										
DO (mg/l)										
pH (Std. Units)										
ORP (millivolts)										
Turb. (NTU)										
Flow (ml/min)										
Depth To Water (ft)										

Pump Type	Purge	Sample
Peristaltic Pump	[ ]	[ ]
Submersible Pump	[ ]	[ ]
Bladder Pump	[X]	[X]
Other: ____	[ ]	[ ]

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	~~1700~~ 1700 EW 8/24/11	MW-5	
PCBs (8082)	No	None	1 L x 2			

Signed: Emilie J. Wachtel

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/24/11	Sheet 1 of 1

TRC Personnel: J. McRobbie/~~E. Wachtel~~ Well Identification: MW-5D

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

WELL CONSTRUCTION

Protective Casing Stick-up _____ ft. (from ground)

Well Depth 19.5 ft. ☐ top of riser ☐ top of casing ☒ measured ☐ historical

5ft screen set @ 17'

Riser Stick-up _____ ft. (from ground)

Water Depth 2.45 ft.

LNAPL/DNAPL Depth = _____ Thickness =

WELL DIAMETER ☒ 2 inch ☐ 4 inch ☐ 6 inch

WELL MATERIAL ☒ PVC ☐ SS ☐ —

LOW FLOW DATA

Depth of pump intake: 17'

Static water level after pump put into well 2.45

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes) 1620 Δ to 180

Flow rate at time of sampling: 180

PID SCREENING DATA

Background	0.1
Well Mouth	0.3

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1515	1530	1540	1550	1600	1610	1615	1620	1625	1630
Temp. (C)	22.99	22.83	22.69	22.52	22.37	22.31	22.23	22.60	20.19	20.21
Conduct. (µmhos/cm)	0.264	0.262	0.261	0.260	0.258	0.258	0.255	0.251	0.246	0.246
DO (mg/l)	1.27	1.11	0.98	0.90	0.85	0.80	0.83	0.85	0.80	0.76
pH (Std. Units)	5.91	5.91	5.92	5.92	5.93	5.93	5.92	5.91	5.86	5.88
ORP (millivolts)	-214.4	-220.2	-220.9	-214.3	-217.5	-213.9	-216.1	-223.6	-218.1	-212.9
Turb. (NTU)	82.5	71.8	66.3	79.1	64.8	57.0	—	45.8		
Flow (ml/min)	70	—	—	—	—	—	—	180	—	—
Depth To Water (ft)	2.45	2.45	—							
Time	1633									
Temp. (C)	20.18									
Conduct. (µmhos/cm)	0.245									
DO (mg/l)	0.78									
pH (Std. Units)	5.91									
ORP (millivolts)	222.1									
Turb. (NTU)	45.0									
Flow (ml/min)										
Depth To Water (ft)										

Pump Type	Purge	Sample
Peristaltic Pump	☐	☐
Submersible Pump	☐	☐
Bladder Pump	☒	☒
Other: _____	☐	☐

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	1640	MW-5D	
PCBs (8082)	No	None	1 L x 2			

Signed: [signature]

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/25/11	Sheet 1 of 1

TRC Personnel: ~~J. McRobbie~~/E. Wachtel Well Identification: MW-27D

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) NA ft. Well Depth 17 ft. [X] top of riser [ ] top of casing [ ] measured [X] historical 5'

Riser Stick-up (from ground) NA ft. Water Depth 2.86 ft. LNAPL/DNAPL Depth = ____ Thickness =

WELL DIAMETER [X] 2 inch [ ] 4 inch [ ] 6 inch

WELL MATERIAL [X] PVC [ ] SS [ ] ____

LOW FLOW DATA

Depth of pump intake: ~15'

Static water level after pump put into well

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling:

PID SCREENING DATA

Background	0.1
Well Mouth	0.5

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1030	1040	1050	1100	1105	1110	1115	1120	1155	1205
Temp. (C)	21.49	21.41	21.37	21.20	21.20	21.20	21.19	21.17	21.18	21.70
Conduct. (µmhos/cm)	0.355	0.348	0.346	0.342	0.341	0.339	0.335	0.332	0.337	0.335
DO (mg/l)	0.26	0.18	0.17	0.14	0.12	0.11	0.13	0.11	0.90	0.50
pH (Std. Units)	6.32	6.15	6.10	6.04	6.04	6.04	6.02	6.00	5.57	5.20
ORP (millivolts)	50.4	71.4	80.8	92.9	93.2	96.0	103.7	108.0	191.8	221.1
Turb. (NTU)	0.55	0.43	0.12	0.08	0.09	0.10	0.03	0.06	—	13.8
Flow (ml/min)	300	300	300	300	300	300	300	300	300	300
Depth To Water (ft)	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
Time	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255
Temp. (C)	21.77	21.97	21.94	21.88	21.87	21.81	21.87	21.87	21.81	21.81
Conduct. (µmhos/cm)	0.332	0.331	0.329	0.329	0.328	0.327	0.327	0.326	0.326	0.325
DO (mg/l)	0.46	0.42	0.40	0.39	0.34	0.31	0.29	0.28	0.26	0.25
pH (Std. Units)	5.24	5.32	5.36	5.40	5.45	5.48	5.51	5.53	5.56	5.59
ORP (millivolts)	218.9	214.1	210.1	206.9	202.1	199.0	196.5	193.7	192.0	189.0
Turb. (NTU)	14.5	12.1	2.06	1.98	1.59	1.08	0.97	0.69	0.58	0.63
Flow (ml/min)	300	300	300	300	300	300	300	300	300	300
Depth To Water (ft)	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86

note: at 1120 I realized did not have the pump set low enough. Lowered to 15' and started collecting parameters again.

1300
21.80
0.329
0.25
5.60
188.7
0.45
300
2.86

Pump Type	Purge	Sample
Peristaltic Pump		
Submersible Pump		
Bladder Pump	X	X
Other: ____		

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	~~1230~~ 1300	MW-27D	
PCBs (8082)	No	None	1 L x 2			

Signed: Emily L Wachtel

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/25/11	Sheet 1 of 1

TRC Personnel: J. McRobbie/E. Wachtel Well Identification: MW-27R

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) NA ft.

Well Depth ~~12~~ 10.70 ft. [X] top of riser [ ] top of casing [X] measured [X] historical

no DNAPL Screen 10+

Riser Stick-up (from ground) NA ft.

Water Depth 2.74 ft. LNAPL/DNAPL Depth = ____ Thickness =

WELL DIAMETER [ ] 2 inch [X] 4 inch [ ] 6 inch

WELL MATERIAL [X] PVC [ ] SS [ ] ____

LOW FLOW DATA

Depth of pump intake: ~ 6.5'

Static water level after pump put into well

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: 300

PID SCREENING DATA

Background	0.3
Well Mouth	1.4

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1400	1410	1420	1430	1435	1440	1445			
Temp. (C)	22.81	22.77	22.60	22.54	22.46	22.41	22.40			
Conduct. (µmhos/cm)	0.388	0.391	0.397	0.400	0.403	0.405	0.406			
DO (mg/l)	0.23	0.18	0.16	0.15	0.15	0.15	0.15			
pH (Std. Units)	6.25	6.26	6.26	6.25	6.25	6.24	6.25			
ORP (millivolts)	11.0	-28	-26.0	-34.4	-41.2	-42.3	-44.3			
Turb. (NTU)	18.7	11.9	~~-26.0~~	~~-34.4~~	8.30	7.94	7.68			
Flow (ml/min)	300	300	300	300	300	300	300			
Depth To Water (ft)	2.85	2.90	2.90	2.90	2.90	2.90	2.90			
Time										
Temp. (C)			10.7	10.3						
Conduct. (µmhos/cm)										
DO (mg/l)										
pH (Std. Units)										
ORP (millivolts)										
Turb. (NTU)										
Flow (ml/min)										
Depth To Water (ft)										

Pump Type

	Purge	Sample
Peristaltic Pump		
Submersible Pump		
Bladder Pump	X	X
Other: ____		

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	1450	MW-27R	
PCBs (8082)	No	None	1 L x 2	Took DUP-1 here		

Signed: Emilie L Wachtel

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/25/11 1055	Sheet 1 of 1

TRC Personnel: J. McRobbie/~~E. Wachtel~~ Well Identification: MW-28

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) NA ft.

Well Depth ~~10.12~~ ~~13.54~~ 11.54 ft. 10' Screen

☒ top of riser ☐ top of casing

☒ measured ☐ historical

Riser Stick-up (from ground) NA ft.

Water Depth 3.04 ft.

LNAPL/DNAPL Depth = NA

Thickness =

WELL DIAMETER ☐ 2 inch ☐ 4 inch ☐ 6 inch ☒ 1 inch

WELL MATERIAL ☒ PVC ☐ SS ☐ ___

LOW FLOW DATA

Depth of pump intake: ~~8~~ 7'

Static water level after pump put into well 3.04

Initial purge Rate/Water Level (100-400 ml/min): 60mL

Adjusted purge Rates/time/WL(record changes) NA

Flow rate at time of sampling: 60mL

PID SCREENING DATA

Background	0.1
Well Mouth	4.3

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1055	1105	1115	1120	1125	1130	1135	1140	1145	1150
Temp. (C)	25.29	24.84	24.60	24.62	24.64	24.74	24.79	24.82	24.81	24.80
Conduct. (µmhos/cm)	0.198	0.339	0.332	0.333	0.332	0.332	0.332	0.333	0.333	0.332
DO (mg/l)	2.65	1.47	0.63	0.60	0.58	0.61	0.63	0.67	0.59	0.56
pH (Std. Units)	6.29	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
ORP (millivolts)	-153.9	-193.7	-214.9	-215.3	-215.5	-205.3	-208.6	-214.5	-217.0	-219.3
Turb. (NTU)	135	—	98.9	—	—	84.3	—	66.7	—	—
Flow (ml/min)	60mL	—	—	—	—	—	—	—	—	—
Depth To Water (ft)	3.04	—	—	3.01	—	—	—	—	3.08	—

Time	1155	1200	1205	1210	1215	1220	1225	1230		
Temp. (C)	24.80	24.81	24.83	24.86	24.89	25.02	25.02	25.03		
Conduct. (µmhos/cm)	0.332	0.333	0.333	0.333	0.333	0.332	0.333	0.333		
DO (mg/l)	0.54	0.55	0.53	0.52	0.54	0.68	0.62	0.59		
pH (Std. Units)	6.10	6.10	6.10	6.11	6.10	6.11	6.11	6.11		
ORP (millivolts)	-221.1	-218.3	-217.6	-215.4	-223.2	-199.6	-223.7	-219.7		
Turb. (NTU)	61.2	—	—	56.4	40.5	36.4	35.9	35.2		
Flow (ml/min)	60	—	—	—	—	—	—	→		
Depth To Water (ft)	3.10	—	—	—	—	—	—	3.10		

Pump Type	Purge	Sample
Peristaltic Pump	☐	☐
Submersible Pump	☐	☐
Bladder Pump	☒	☒
Other: ___	☐	☐

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	1235	MW-28	
PCBs (8082)	No	None	1 L x 2			

Signed: J McRobbie

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/24/11	Sheet 1 of 1

TRC Personnel: ~~J. McRobbie~~ E. Wachtel Well Identification: MW-31

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	X
Security Lock Present		X

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) NA ft. Well Depth 9 ft. [X] top of riser [ ] top of casing [ ] measured [X] historical 7' screen

Riser Stick-up (from ground) NA ft. Water Depth 2.93 ft. LNAPL/DNAPL Depth = ____ Thickness =

WELL DIAMETER [ ] 2 inch [ ] 4 inch [ ] 6 inch 1 in

WELL MATERIAL [X] PVC [ ] SS [ ] ____

LOW FLOW DATA

Depth of pump intake: 5.5'-6'

Static water level after pump put into well

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes) NA

Flow rate at time of sampling: 40mL/min

PID SCREENING DATA

Background	0.1
Well Mouth	0.2

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1125	1135	1145	1205	1215	1225	1235	1240	1245	1250
Temp. (C)	24.80	24.59	24.54	24.41	24.42	24.40	24.38	24.38	24.37	24.36
Conduct. (µmhos/cm)	0.639	0.631	0.628	0.62	0.619	0.618	0.616	0.615	0.614	0.614
DO (mg/l)	1.10	0.66	0.52	0.46	0.33	0.31	0.28	0.27	0.27	0.26
pH (Std. Units)	5.98	5.53	5.47	5.42	5.41	5.38	5.37	5.37	5.38	5.37
ORP (millivolts)	237.2	308.7	332.0	382.4	393.7	409.2	415.1	423.0	427.4	429.2
Turb. (NTU)	43.6	39.7	35.9	33.7	34.8	31.9	29.7	28.9	26.8	25.3
Flow (ml/min)	40	40	40	40	40	40	40	40	40	40
Depth To Water (ft)	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93
Time	1255									
Temp. (C)	24.36									
Conduct. (µmhos/cm)	0.613									
DO (mg/l)	0.26									
pH (Std. Units)	5.36									
ORP (millivolts)	432.5									
Turb. (NTU)	26.9									
Flow (ml/min)	40									
Depth To Water (ft)	2.93									

Pump Type	Purge	Sample
Peristaltic Pump		
Submersible Pump		
Bladder Pump	X	X
Other: ____		

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe, MP15 + compressed gas
1 inch (2020e) (Solinst)

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	1300	MW-31	
PCBs (8082)	No	None	1 L x 2			

Signed: Emily Wachtel

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/25/11 1305	Sheet 1 of 1

TRC Personnel: J. McRobbie/~~E. Wachtel~~ Well Identification: MW-32

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

PID SCREENING DATA

Background	0.1
Well Mouth	60.3

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) NA ft.

Well Depth ~~10~~ 8.26 ft. [X] top of riser [ ] top of casing [X] measured [ ] historical

71' Screen

Riser Stick-up (from ground) NA ft.

Water Depth 2.9 ft.

LNAPL/DNAPL Depth = NA

Thickness =

WELL DIAMETER [ ] 2 inch [ ] 4 inch [ ] 6 inch [X] 1in

WELL MATERIAL [X] PVC [ ] SS [ ] —

LOW FLOW DATA

Depth of pump intake: 5'

Static water level after pump put into well

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling:

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1410	1415	1420	1445	1500	1515				
Temp. (C)	24.22	24.21	24.20	24.21	24.20	24.20				
Conduct. (µmhos/cm)	0.420	0.424	0.428	0.427	0.426	0.428				
DO (mg/l)	1.53	1.47	1.30	1.31	1.29	1.30				
pH (Std. Units)	6.61	6.60	6.60	6.60	6.60	6.60				
ORP (millivolts)	-192.1	-192.9	-193.3	-193.3	-193.3	-193.3				
Turb. (NTU)	—	29.7	9.61	—	—	0.83				
Flow (ml/min)	60	→								
Depth To Water (ft)	—	2.9	2.9	—	—	2.94				
Time										
Temp. (C)										
Conduct. (µmhos/cm)										
DO (mg/l)										
pH (Std. Units)										
ORP (millivolts)										
Turb. (NTU)										
Flow (ml/min)										
Depth To Water (ft)										

Pump Type	Purge	Sample
Peristaltic Pump		
Submersible Pump		
Bladder Pump	X	X
Other:		

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	1520	MW-32	
PCBs (8082)	No	None	1 L x 2			

Signed: [signature]

Rev: 10/09

TRC

Low-flow Groundwater Sampling Data Record

Project: NBHS New Bedford, MA	Project No.: 115058	Date / Start Time: 8/24/11	Sheet 1 of 1

TRC Personnel: J. McRobbie/~~E. Wachtel~~ Well Identification: MW-33

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present		X
Security Lock Present		X

PID SCREENING DATA

Background	0.1
Well Mouth	0.5

WELL CONSTRUCTION

Protective Casing Stick-up (from ground) 5" Well Depth 9' ft. [X] top of riser [ ] top of casing [ ] measured [ ] historical

Riser Stick-up (from ground) 4" Water Depth 2.9 ft. LNAPL/DNAPL Depth = — Thickness =

WELL DIAMETER [ ] 2 inch [ ] 4 inch [ ] 6 inch [X] 1 inch

WELL MATERIAL [X] PVC [ ] SS [ ] —

LOW FLOW DATA

Depth of pump intake: 6'

Static water level after pump put into well 2.9'

Initial purge Rate/Water Level (100-400 ml/min):

Adjusted purge Rates/time/WL(record changes) NA

Flow rate at time of sampling: 40 mL

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

Time	1130	1135	1140	1145	1150	1155	1200	1205	1210	1220
Temp. (C)	22.27	22.12	22.09	22.04	22.04	22.02	22.01	22.00	22.01	21.95
Conduct. (µmhos/cm)	0.338	0.304	0.300	0.297	0.293	0.293	0.293	0.293	0.293	0.292
DO (mg/l)	3.01	2.76	2.82	2.72	2.53	2.39	0.236	2.34	2.30	2.26
pH (Std. Units)	6.27	6.23	6.23	6.23	6.23	6.22	6.22	6.23	6.22	6.22
ORP (millivolts)	-175.9	-179.6	-178.8	-176.3	-179.6	-178.1	-177.7	-177.6	-178.0	-177.8
Turb. (NTU)	16.4	—	23.4	13.7	13.1	—	12.7	12.4	—	14.7
Flow (ml/min)	40	—	—	—	—	—	—	—	—	—
Depth To Water (ft)	2.9	—	—	—	3.1	—	—	3.1	—	3.1

Time	1225	1235	1238	1241	1244					
Temp. (C)	21.96	21.97	21.97	21.96	21.95					
Conduct. (µmhos/cm)	0.293	0.293	0.293	0.294	0.294					
DO (mg/l)	2.21	2.18	2.17	2.17	2.17					
pH (Std. Units)	6.23	6.23	6.23	6.23	6.23					
ORP (millivolts)	-176.9	-176.7	-176.7	-176.3	-176.0					
Turb. (NTU)	17.4	13.8	12.4	11.9	11.0					
Flow (ml/min)	40 →									
Depth To Water (ft)	3.15	—	—	—	3.15					

Pump Type	Purge	Sample
Peristaltic Pump	[ ]	[ ]
Submersible Pump	[ ]	[ ]
Bladder Pump	[X]	[X]
Other: _____	[ ]	[ ]

Description of Sampling Equipment and Flow Rate:

Bladder Pump, YSI, LaMotte, Interface Probe

Analytical Parameter	Filtered (Y/N)	Preservation	Volume	Time Collected	Sample #	Case #
VOCs (8260 + TO-15)	No	HCl	40mL x 2	1245	MW-33	
PCBs (8082)	No	None	1 L x 2			

Signed: [signature]

Rev: 10/09

Field Instrument Calibration Log

TRC

Date: 8/24/11 Site Name: NBHS

Water Quality Instrument Type / ID: YSI 650 MDS w/ 600XL Probe (SN 01H0499AA - 3356)

Turbidity Instrument Type / ID: LaMotte 2020e (SN-ME-10454)

Date of Last Temperature Probe Check: _____

Dissolved Oxygen (DO)

	Time	Barometric Pressure (mm Hg)	Temperature (° Celsius)	100% Saturation Calibration (On Instrument)	Actual 100% Saturation Calibration (Refer to Attachment A)	Oxygen Solubility at Indicated Pressure (mg/L) (On Instrument)	Actual Oxygen Solubility at Indicated Pressure (mg/L) (Refer to Attachment B)	Zero DO Check (mg/L)	Comments	Initials
8/24	851	763.8	22.26	100.0	~100-101	7.67	~8.71	0.03		JM
8/25	830	759.8	25.24	~~100.3~~ 99.8	~100-101	8.16	~8.24	0.05		JM

pH

	Time	Solution Temperature (° Celsius)	pH 7	pH 4	pH 10	pH 7 Check	Comments	Initials
	819	21.70	7.00			7.00		JM
8/24	822	21.36		4.00				JM
	834	22.60			9.98			JM
8/25	804	24.13	7.08	3.89	9.95	7.04		JM

Specific Conductance

	Time	Specific Conductance Reading (umhos/cm3)	Comments	Initials
8/24	0812	1.413		JM
8/25	0757	1.420		

Oxidation Reduction Potential (ORP)

	Time	Solution Temperature (° Celsius)	ORP Reading (mV) (Refer to Attachment C)	Actual ORP Reading (mV) (On Instrument)	Comments	Initials
8/24	843	21.20	236.2	240.0		JM
8/25	820	24.23	232.3	235.4		JM

Turbidity

	Time	Zero Standard	Standard #1 (1 NTUs)	Standard #1 (10 NTUs)	Comments	Initials
8/24	915	0.38	0.74	9.85		JM
8/25	855	~~0.95~~ -0.97	1.11	12.0		JM

Calibration Solution	Lot Number	Expiration Date
Zero DO	214328	—
Specific Conductance (1.413 uS/cm)	8705	2/17/12
pH 4	2011507	10/12
pH 7	2101037	12/12
pH 10	8421	10/18/11
ORP (240 mV)	3004	1/16
Turbidity Standard #1 (1 ntu)	—	—
Turbidity Standard #2 (10 ntu)		

Signed [signature]

L2008-213

Field Instrument Calibration Log

TRC

Date: 8/24/11 Site Name: NBHS

Water Quality Instrument Type / ID: YSI 600XL (Pine ID: 01K0643 AB) w/ 650 MDS Display (04B0763 AB)

Turbidity Instrument Type / ID: LaMotte 2020e (Pine ID: (SN) ME 10581)

Date of Last Temperature Probe Check:

Dissolved Oxygen (DO)

	Time	Barometric Pressure (mm Hg)	Temperature (° Celsius)	100% Saturation Calibration (On Instrument)	Actual 100% Saturation Calibration (Refer to Attachment A)	Oxygen Solubility at Indicated Pressure (mg/L) (On Instrument)	Actual Oxygen Solubility at Indicated Pressure (mg/L) (Refer to Attachment B)	Zero DO Check (mg/L)	Comments	Initials
8/24/11	0850	764.6	27.14	100.6	~100-101	7.98	~7.95	0.08	—	EW
8/25/11	0840	760.3	27.48	100.0	~100	7.89	~7.95	0.06	—	EW

pH

	Time	Solution Temperature (° Celsius)	pH 7	pH 4	pH 10	pH 7 Check	Comments	Initials
8/24/11	0816	20.93	7.00	3.97	10.00	6.95	—	EW
8/25/11	0800	24.40	7.00	3.99	10.00	6.94	—	EW

Specific Conductance

	Time	Specific Conductance Reading (umhos/cm3)	Comments	Initials
8/24/11	0810	1.413	—	EW
8/25/11	0750	1.413	—	EW

Oxidation Reduction Potential (ORP)

	Time	Solution Temperature (° Celsius)	ORP Reading (mV) (Refer to Attachment C)	Actual ORP Reading (mV) (On Instrument)	Comments	Initials
8/24/11	0845	23.73	~232	239.9	—	EW
8/25/11	0830	27.95	~227	240.1		

Turbidity

	Time	Zero Standard	Standard #1 (1 NTUs)	Standard #1 (10 NTUs)	Comments	Initials
8/24/11	0900	-0.08	1.10	9.65	—	EW
8/25/11	0900	0.06	0.95	10.00	—	EW

Calibration Solution	Lot Number	Expiration Date
Zero DO	44328	w/in two weeks of adding H_2O
Specific Conductance (1.413 mS/cm)	8428	10-20-2011
pH 4	8425	10-19-2011
pH 7	2101037	12-2012
pH 10	8421	10-18-2011
ORP (240 mV)	3004	01-2016
Turbidity Standard #1 (1 ntu)	not provided	not provided
Turbidity Standard #2 (10 ntu)	not provided	not provided

Signed Emile Williams

L2008-213