

# **CLASS B-1 RESPONSE ACTION OUTCOME REPORT**

**Former Morningside Fire Station  
235 Tyler Street  
Pittsfield, Massachusetts  
Release Tracking Number (RTN) 1-17533**

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## 1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this Response Action Outcome (RAO) Statement to support a Class B-1 RAO for Parcel H110007003 of the former Morningside Fire Station located at 235 Tyler Street in Pittsfield, Massachusetts (the “Site”). TRC prepared this RAO on behalf of our client, the City of Pittsfield, Massachusetts (the “Client” and the “City”), in accordance with the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). Copies of the Release Notification Form (RNF; BWSC-103) and RAO Statement transmittal form (BWSC-104) are included in Appendix A.

Site investigation activities were undertaken at the Site to assess potential impacts to soil and groundwater from historical Site uses and from two underground storage tanks (USTs) which have subsequently been removed from the Site. The City of Pittsfield currently owns the Site.

The City submitted a RNF to MassDEP on August 4, 2009 for the detection of petroleum-related compounds identified above the Reportable Concentration (RC) for S-1 soils, which triggered a 120-day reporting obligation under the MCP. Release Tracking Number (RTN) 1-17533 was subsequently assigned to the Site. The RAO is being submitted within 120 days of the Site owner obtaining knowledge of the 120-day reporting condition under the MCP.

The responsible party and the Licensed Site Professional for the response actions at this Site are listed below.

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## **2.0 SITE LOCATION AND DESCRIPTION**

### **2.1 Site Location and Description**

The Site consists of one parcel of land measuring 0.376 acres located at 235 Tyler Street in Pittsfield, Massachusetts. The Site includes a three-story, red brick building identified as the former Morningside Fire Station. The approximate latitude and longitude coordinates of the Site are 42° 27' 29.2" North, 73°, 14', 40.6" West. A Site Location Map is provided as Figure 1. A Site Plan showing the locations of the Site buildings, sampling locations, and other relevant Site features is provided as Figure 2.

The Site operated as the Morningside Fire Station from approximately 1905 until 1970. Since 1970, the Site has been used by the City's Emergency Management Operations, Police, and other City of Pittsfield entities. Currently, the Site functions as a storage facility for Fire and Emergency Management with emergency management volunteers visiting the building roughly once a week.

### **2.2 Site Vicinity & Surrounding Receptors**

Land in the immediate vicinity of the Site is developed primarily with a mix of commercial and residential properties. The Site is bordered to the north by residential properties, a former real estate office building (currently vacant) to the east, a seasonal ice cream store and single-family residential houses to the west, and Tyler Street to the south. Several commercial entities are located across Tyler Street further to the south. Morningside Community School serving grades K-5 is located less than 500 feet south from the Site. The nearest standing body of water, Silver Lake, is located approximately ½-mile southeast of the Site. The West Branch of the Housatonic River is located approximately ½-mile west of the Site, and the East Branch of the Housatonic River is located approximately ¾-mile southeast of the Site. Topography in the area rises slightly west along Tyler Street until the land crests and then dips to First Street. Topography dips gently east along Tyler Street, towards the Morningside Community School.

### **2.3 Natural Resource Areas**

Based on a review of the Massachusetts Geographic Information Systems (MassGIS) Massachusetts Department of Environmental Protection (*MassDEP*) *Priority Resource Map*, none of the following features are present within 500 feet of the Site:

- Wetlands;
- Vernal Pools;
- Ponds;
- Lakes;
- Rivers;
- Streams;
- Reservoirs;
- Zone II Areas;
- Interim Wellhead Protection Areas;

- Zone A Areas;
- Potentially Productive Aquifers,
- Sole Source Aquifers;
- Areas of Critical Environmental Concern; or
- Fish Habitats; or
- Habitats for Species of Special Concern or Threatened or Endangered Species.

A copy of the *MassDEP Priority Resource Map*, depicting natural resource area information, is provided as Figure 3.

## **2.4 Regulatory Status**

RTN 1-17533 was assigned to petroleum-related compounds identified in the soil above RCS-1 values, as a 120-day reporting condition under the MCP. This RTN will be closed after the submission of this Class B-1 RAO report.

## **2.5 Release History and Previous Investigations**

Based upon the subsurface investigation activities performed by TRC in February and March 2009, RTN 1-17533 was assigned to the petroleum-related compounds identified in the soil above RCS-1 values. No additional known environmental investigations have been performed at this Site.

### **3.0 SITE INVESTIGATION APPROACH**

This section describes the activities performed as part of TRC's Site investigation.

#### **3.1 Phase I Environmental Site Assessment**

TRC performed a Phase I Environmental Site Assessment (ESA) in March 2007 for Berkshire Regional Planning Commission (BRPC) under the Brownfields Assessment Grant Program funded by the Environmental Protection Agency (EPA). TRC's Phase I ESA revealed the current and historic use of USTs on the Site. TRC documented the use of a 1,000-gallon No. 2 oil fuel UST at the Site on the east side of the building. According to fire department personnel, a former gasoline UST was located on the southwest corner of the building where TRC observed a fill pipe. In addition TRC observed another possible fill pipe inside the building on the first floor in the west bay. No UST closure documentation was available for review. TRC concluded that the potential for soil and groundwater contamination from the current and historical use of USTs located on the Site represented a *Recognized Environmental Condition* (REC) in connection with the Site.

#### **3.2 Geophysical Survey**

On March 18, 2008, Hager Geoscience, Inc. (HGI) conducted a geophysical survey of the Site to investigate the presence of potential USTs or other buried objects. HGI employed ground penetrating radar (GPR) survey techniques in all accessible areas of the Site including two areas suspected to contain USTs. Electromagnetic (EM) terrain conductivity was used to supplement the GPR survey. Two USTs were identified - one located along the eastern side of the building, and the other off the southwest corner of the Site building. Several suspected utilities were also identified at the Site. A copy of the geophysical survey report is provided in Appendix B.

#### **3.3 Excavation and Removal of Underground Storage Tanks**

The City of Pittsfield procured Miller's Petroleum Systems, Inc. (MPSI) of Pittsfield, Massachusetts to excavate, remove, and transport the 750-gallon UST and the 1000-gallon No. 2 fuel oil UST to George Apkin & Sons, Inc. in North Adams, Massachusetts, a permitted tank disposal/recycling facility. Prior to excavation, MPSI secured two permits from the City of Pittsfield Fire Department to remove and transport both USTs to an approved tank disposal yard. A copy of the UST permits is provided in Appendix C. On February 25, 2009, during the UST removals, soil surrounding the tanks was screened by TRC for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). A summary of the excavation and removal of the USTs and associated piping is provided below.

##### 750-gallon UST

An internal inspection of the 750-gallon UST revealed the presence of approximately five inches of oily liquid remaining within the tank. Absorbent materials were used to remove the liquid from the tank. The UST was subsequently excavated and removed from the subsurface. Groundwater was not encountered during excavation activities. The excavation area measured



approximately 10 feet long by 10 feet wide by 6.5 feet deep. No holes were visually observed in the UST and no product was visually observed in the excavation. The UST excavation was subsequently backfilled to existing grade by MPSI with excavated material followed by clean fill.

The contents of the 750-gallon UST was not clearly identified. The permit that MPSI secured from the City to remove and transport the UST to an approved tank disposal yard did not specify the type of UST. TRC field staff on-site during the tank removals observed an odor similar to gasoline coming from the tank. However, analyses performed of the soil associated with the 750-gallon UST excavation are sufficient regardless of whether the contents were gasoline or diesel (Table 2). Both volatile petroleum hydrocarbon (VPH) and extractable petroleum hydrocarbon (EPH) were analyzed of the base of the excavation and EPH was analyzed of the sidewall samples because no PID readings were observed above background levels of the excavation sidewalls.

#### 1,000-gallon No. 2 Fuel Oil UST

The 1,000-gallon UST did not contain any measurable product when it was gauged prior to excavation activities. The UST was subsequently excavated and removed from the subsurface. Groundwater was not encountered during excavation activities. No petroleum was released during the tank removal and no product was observed in the excavation. The excavation area measured approximately 15 feet long by 8 feet wide by 8 feet deep. No holes were visually observed in the UST and no product was visually observed in the excavation. The UST excavation was subsequently backfilled to existing grade by MPSI with excavated material followed by clean fill.

### **3.4 Post Excavation Soil Sampling**

During and following excavation activities, no soil headspace testing exhibited PID readings greater than 100 parts per million by volume (ppmv) and no visual signs of contamination in soil was identified. Following the UST removals and soil excavation, composite soil samples were collected from the four sidewalls of each tank excavation for EPH analysis. Discrete soil samples were then collected from the floors of each tank excavation for EPH and VPH analyses. The samples were then field screened using a PID and the MassDEP jar headspace analytical screening method. Samples were collected from areas exhibiting staining, petroleum odors, and/or highest PID readings. At locations where VPH analysis was performed, each VPH grab sample was immediately and carefully placed (in a manner to minimize volatilization) in preserved vials upon collection, and then immediately placed on ice. Soil recovered from each location for EPH analysis was placed into stainless steel bowls using decontaminated stainless steel spoons, and subsequently homogenized. These homogenized samples were then transferred to containers with a stainless steel spoon for each location for EPH analysis, and immediately placed on ice. A summary of analytical parameters for soil samples is presented in Table 1.

### **3.5 Soil Boring and Monitoring Well Installation**

On March 23, 2009, under the supervision of TRC, Geosearch, Inc. of Fitchburg, Massachusetts advanced four soil borings (B-1 through B-4) throughout the Site, using hollow stem auger

(HSA) drilling methods. Borings were generally collected for logging purposes continuously from the ground surface to the completion depths. Final completion depths ranged from approximately 14 feet below ground surface (bgs) at B-4 to approximately 26 feet bgs at B-3. Soil boring, B-4, was installed as a contingency boring to the southeast of soil boring B-3 due to detectable concentrations of VOCs in soil (through field screening) at soil boring B-3. Soil boring and monitoring well locations are shown in Figure 2. Soil boring logs are included in Appendix E.

Three soil borings, B-1 through B-3, were completed as groundwater monitoring wells, MW-1 through MW-3, respectively. The monitoring wells were constructed of 2-inch diameter flush threaded 0.010-inch slot Schedule 40 polyvinyl chloride (PVC) well screen, solid PVC riser, and a well cap. Graded washed sand was used to fill the annulus around the well screen to approximately two feet above the top of the well screen, where possible. A minimum of a 1-foot bentonite seal was placed above the sand. Any remaining space in the annulus around the well was backfilled with native soil cuttings. The monitoring wells were completed at surface grade with six-inch flush-mounted protective road boxes. Monitoring well locations are shown in Figure 2, and monitoring well construction diagrams are included in Appendix E.

### **3.6 Soil Sampling and Field Screening**

Continuous soil samples from the borings were collected using 24-inch long, 2-inch diameter stainless steel split spoons. Prior to sample collection, each soil sample was evaluated for physical characteristics and inspected for visual and/or olfactory evidence of contamination. Samples were then screened in the field for the presence of VOCs using a PID in accordance with the MassDEP jar headspace field screening procedure. Elevated PID readings and any visual or olfactory indications of contamination were used as a guide for the selection of soil samples for laboratory analysis. If no evidence of contamination was observed during boring advancement, a soil sample was collected from immediately above the observed groundwater table for analysis. Screening results are documented in the soil boring logs which are provided in Appendix E.

A total of eight soil samples were collected, preserved in the field, stored on ice, and transported under Chain-of-Custody protocol to Con-test Analytical Laboratory (Contest) of East Longmeadow, Massachusetts for analysis of EPH, VPH, and polychlorinated biphenyls (PCBs). A summary of the samples collected for laboratory analysis is provided in Table 1. The analyses were selected for each location in accordance with MassDEP UST closure assessment guidelines (DEP Policy #WSC-402-96).

### **3.7 Groundwater Development and Sampling**

Following installation, monitoring wells were developed using a submersible centrifugal (whale) pump to remove fine particles from around the sand pack and well screen on March 24, 2009. Wells were purged until the discharge water was clear or until the well was pumped dry three times. After development, monitoring wells were allowed to stabilize for seven days before groundwater samples were collected.

TRC collected groundwater samples from the newly-installed monitoring wells (MW1 through MW3) on March 31, 2009. Prior to sampling groundwater, TRC screened for non-aqueous phase liquid (NAPL) using an oil/water interface probe. NAPL was not detected during groundwater sampling at the Site. Groundwater samples were collected by TRC using EPA low-flow sampling methodology. Dedicated, disposable tubing was placed down each well so that it was entirely in the screened section of the wells. Water was then pumped by means of mechanical peristalsis through a flow through cell where water quality parameters were recorded using a YSI© 600XL water quality meter. Parameters recorded included temperature, conductivity, pH, dissolved oxygen (DO), and oxidation reduction potential (ORP). A separate turbidity meter was used for turbidity measurements. Groundwater samples were collected upon stabilization of water quality parameters. A summary of the groundwater samples collected for laboratory analysis is provided in Table 1.

Collected groundwater samples were submitted for laboratory analysis of VPH, EPH, total lead as shown on Table 1. Samples for dissolved lead analysis were collected at each monitoring well by using an in-line 0.45-micron ( $\mu\text{m}$ ) filter. Analysis of the dissolved MCP metals, lead and zinc from one groundwater sample (MW3) was deemed necessary by TRC based on total MCP metals results. Groundwater sample logs are included in Appendix E, and groundwater sample analytical results are summarized in Table 4.

### **3.8 Groundwater Elevation Survey and Oil Thickness Measurements**

On March 31, 2009, a relative elevation survey of the three newly-installed groundwater monitoring wells was then performed via rod and level methodology. Elevations were surveyed to an arbitrary datum of 100 feet above mean sea level (amsl) and measurements were recorded in tenths of a foot. Depth to groundwater was measured within each of the three Site monitoring wells from the top of PVC risers. Monitoring well gauging activities were conducted using a 100-foot Solinst™ Oil/Water Interface Probe (IP). Data from these activities were used to estimate the elevation of the groundwater table at each monitoring well location and estimate groundwater flow direction. The IP was also used to detect the potential presence of light non-aqueous phase liquid (LNAPL) on the groundwater table. The locations of Site monitoring wells are presented on Figure 2. A Groundwater Contour Plan is presented as Figure 4. Elevation and groundwater depth gauging data are provided in Table 2.

### **3.9 Underground Storage Tank and Investigation Derived Waste Management**

The following sections document the management of the USTs, UST contents, soil and groundwater pursuant to the MCP and with MassDEP UST closure assessment guidelines (DEP Policy #WSC-402-96).

#### ***3.9.1 Underground Storage Tanks and Contents***

As described in Section 3.3, absorbent material was used to remove the oily liquids observed within the 750-gallon former UST. The spent absorbent materials were removed by MPSI and transported off-site for disposal. On February 24, 2009 MPSI transported the USTs and associated piping to the George Apkin & Sons facility for steel recycling.

#### ***3.9.2 Soil***

Soil cuttings generated at the Site as part of HSA drilling activities were reused as backfill during the well construction process. No soil was generated which required off-Site disposal.

#### ***3.9.3 Groundwater***

Purge water collected during groundwater monitoring wells during well development or sampling was recharged to the ground surface in accordance with 310 CMR 40.0045(7).

### **3.10 Applicable Soil and Groundwater Reporting and Cleanup Categories**

In order to compare the soil and groundwater concentrations to the appropriate numerical standards, the applicable soil and groundwater categories were determined for the Site based on current and reasonably foreseeable future Site activities and uses. Rational for determining these comparison standards is detailed below.

Soil Criteria

**Reporting** – In accordance with 310 CMR 40.0361(1)(a)(1) of the MCP, the applicable reporting category for soils collected at the Site is RC S-1 (RCS-1) because soil samples were generally collected within 500 feet of a residential dwelling.

Because Site soils contained coal and coal ash, analytical results were also compared to MassDEP’s background levels in soil containing coal ash and wood ash associated with fill material as discussed in the MassDEP May 2002 guidance document entitled *Technical Update – Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil (MassDEP, 2002)*.

**Cleanup** – Under current conditions, the frequency and intensity of use for both adults and children are considered low. No one resides at the Site; however, the Site is currently used infrequently by the City’s emergency response personnel. Also, the potential exists for children to visit the Site as infrequent trespassers. Therefore, surface soils (i.e., 0-3 feet) at the Site are considered S-2 and subsurface soils (i.e., > 3 feet) are considered S-3 because they are considered to be “potentially accessible” pursuant to 310 CMR 40.0933(4)(c)(2) of the MCP and the both the intensity and frequency of use are considered low. The future use of the Site has not been fully determined; therefore, TRC has conservatively assumed that surface and subsurface soil at the Site under foreseeable future use would be S-1. Therefore, soils will be compared to S-1/GW-2 and S-1/GW-3 cleanup standards as a conservative measure based upon potential future-use Site conditions. Soils will also be compared to S-2/GW-2 and S-2/GW-3 standards based upon current Site conditions.

Groundwater Criteria

**Reporting** – In accordance with 310 CMR 40.0362(1)(b) of the MCP, the applicable reporting category for groundwater collected at the Site is RCGW-2 because groundwater samples were not collected within a Current or Potential Drinking Water Source Area..

**Cleanup** – The applicable groundwater classification for the Site is MCP category GW-2/GW-3 as explained below.

Groundwater is categorized based upon the current and/or future use as a drinking water source (GW-1), its potential to act as a source of volatile material to indoor air (GW-2), and the potential to discharge material to surface water (GW-3). The MCP describes six criteria used for determining if disposal site groundwater is categorized as GW-1. These criteria include the following.

| GW-1 Selection Criteria             | Applicable (Yes or No) |
|-------------------------------------|------------------------|
| The groundwater is within a Zone II | NO                     |

| GW-1 Selection Criteria   | Applicable (Yes or No) |
|---|------------------------|
| The groundwater is within an Interim Wellhead Protection Area   | NO                     |
| The groundwater is within a Potentially Productive Aquifer  | NO                     |
| The groundwater is within Zone A of a Class A Surface Water Body  | NO                     |
| The groundwater is located greater than 500 feet from a public water system distribution pipeline   | NO                     |
| The groundwater is located within 500 feet of a private water supply well that was in use at the time of notification pursuant to 310 CMR 40.0300 and was installed in conformance with an applicable laws, by-laws, or regulations | NO                     |
| <b>Notes:</b> Information Source - <i>MassGIS MassDEP Priority Resource Map provided as Figure 3.</i>   |                        |

The groundwater at the disposal site does not meet any of the above criteria, and is therefore not categorized as GW-1.

The MCP indicates that groundwater is categorized as GW-2 when it is located within 30 feet of an occupied building or structure and the average annual depth to groundwater in the area is fifteen feet or less. During investigation activities, average depth to groundwater across the Site ranged from approximately 9 feet to 17 feet below grade. Although there is a building located on Site, it is currently not occupied. Therefore, based on the requirements of the MCP, groundwater would be not be classified as GW-2. However, in the future, should the existing Site building become occupied or the Site be redeveloped with a building which becomes occupied, a GW-2 groundwater classification will apply. Finally, in accordance with 310 CMR 40.0932(2) of the MCP, all groundwater within the Commonwealth is classified as GW-3.

Therefore, as a summary of the above discussion, based upon current and foreseeable future Site conditions, the appropriate groundwater classification for the disposal site is MCP category GW-2 and also GW-3

## **4.0 RESULTS OF INVESTIGATION**

### **4.1 Geophysical Survey Results**

Based upon the results of the geophysical survey, one 1,000-gallon UST and one 750-gallon UST were identified at the Site on the eastern and southwestern sides of the Site building, respectively. A copy of the geophysical survey report is provided in Appendix B.

### **4.2 Site Soil Conditions**

Based on the boring logs for soil borings advanced on March 23, 2009 by TRC, the soil stratigraphy at the Site generally consists of fine sand with varying amounts of gravel and some urban fill consisting of ash and bricks. Boring logs are provided in Appendix E.

### **4.3 Soil Analytical Results**

A summary of the soil analytical results from the soil samples collected at the Site is presented in Table 3. As stated above in Section 3.8, the laboratory results of the soil samples collected from borings completed on-Site were compared to MCP RCS-1 values and Method 1 S-1/GW-2, S-1/GW-3, S-2/GW-2, and S-2/GW-3 cleanup standards. Analytical results from the post excavation samples revealed exceedances of RCS-1 and Method 1 S-1/GW-2 and S-1/GW-3 standards for several EPH constituents. Consequently, additional soil borings and monitoring wells were installed on March 23, 2009. Copies of the laboratory analytical data reports are provided on compact disk in Appendix D. A summary of the soil analytical results from samples collected following UST excavation activities and during soil boring advancement activities are provided below.

#### ***4.3.1 Volatile Petroleum Hydrocarbons***

Several target and fraction range VPH compounds were identified at concentrations above the laboratory detection limits but below the RCS-1 standard and applicable cleanup standards.

#### ***4.3.2 Extractable Petroleum Hydrocarbons***

Several exceedances were observed in the sample collected on February 25, 2009 from the bottom of the 1,000-gallon UST excavation at a depth of approximately eight feet bgs. EPH fractional constituent, C9-C18 aliphatics, was detected above the RCS-1 and Method 1 S-1/GW-2 and S-1/GW-3 standards at a concentration of 1,390 mg/kg. EPH target constituents, acenaphthylene (2.1 mg/kg) and 2-methylnaphthalene (4.5 mg/kg), were detected in excess of the RCS-1 standards but below the Method 1 S-1/GW-2 and S-2/GW-3 standards.

During the soil boring program completed on March 23, 2009, EPH target constituents benzo(a)pyrene and dibenzo(a,h)anthracene were detected at MW-1 at a depth of 8 to 10 feet bgs, at concentrations of 3.5 mg/kg and 0.9 mg/kg, respectively. While these concentrations exceed the RCS-1 standard, they are below the applicable cleanup standards.

### **4.3.3 Polychlorinated Biphenyls**

Concentrations of PCBs were not detected above the laboratory detection limits.

### **4.3.4 Metals**

Lead was detected at the Site, but at concentrations below the RCS-1 and Method 1 S-1/GW-2 and S-2/GW-3 cleanup standards.

## **4.4 Groundwater Analytical Results**

A summary of the groundwater analytical results from the groundwater samples collected at the Site is presented in Table 4. As stated above in Section 3.8, the laboratory results of the groundwater samples collected on-Site were compared to MCP RCGW-2 and Method 1 GW-2/GW-3 cleanup standards. Copies of the laboratory analytical data reports are provided in Appendix D. The results of the groundwater analyses indicated that concentrations of VPH, EPH and lead, from samples collected at the three on-Site wells (MW-1, MW-2 and MW-3), were below laboratory detection limits.

## **4.5 Groundwater Level Measurement Results**

During the relative elevation survey, groundwater depths at the Site ranged from approximately 9.3 feet to 17.1 feet below top of PVC riser (approximately 9.5 feet to 17.7 feet below grade, respectively). LNAPL was not detected in the newly-installed groundwater monitoring wells. Based on the limited elevation data acquired during the March 31, 2009 survey, topography, the groundwater table slopes to the southeast at an average gradient of approximately 0.002 feet/foot.



## **5.0 METHOD 1 RISK CHARACTERIZATION**

TRC performed a MCP Method 1 Risk Characterization for the Site because contamination at the Site was limited to soil. The MCP Method 1 risk characterization included a comparison of the Exposure Point Concentrations (EPCs) for contaminants in soil to the Method 1 cleanup standards.

### **5.1 Applicable MCP Soil and Groundwater Categories**

In order to compare the soil and groundwater concentrations to the appropriate numerical standards, the applicable soil and groundwater categories were determined for the Site based on current and reasonably foreseeable future Site activities and uses. The Site is located within a commercial and residential area of Pittsfield. The Site is currently used infrequently by the City's emergency response personnel and access to the Site is unrestricted. Under current conditions, the frequency and intensity of use for both adults and children are considered low. No one resides at the Site; however, the Site is currently used infrequently by the City's emergency response personnel. Also, the potential exists for children to visit the Site as infrequent trespassers. Therefore, surface soils (i.e., 0-3 feet) at the Site may be considered S-2 and subsurface soils (i.e., > 3 feet) are considered S-3 because they are considered to be "potentially accessible" pursuant to 310 CMR 40.0933(4)(c)(2) of the MCP and the both the intensity and frequency of use are considered low. However, because the future use of the property has not been fully determined, TRC has conservatively assumed that surface and subsurface soil at the Site under foreseeable future use would be S-1. Therefore, soils will be compared to RCS-1 standards as a conservative measure based upon potential unrestricted future-use Site conditions. For the purposes of evaluating if cleanup is warranted at the Site, the soil results will also be compared to S-1/GW-2 and S-1/GW-3

Groundwater at the Site is not used as a drinking water source and does not otherwise meet the definition of GW-1 per 310 CMR 40.0932 of the MCP. The MCP indicates that groundwater is categorized as GW-2 when it is located within 30 feet of an occupied building or structure and the average annual depth to groundwater in the area is fifteen feet or less. There is one building currently located on Site, and is currently infrequently used by the City of Pittsfield. Therefore, based on the requirements of the MCP, groundwater would be classified as GW-2.

Based on the above discussion, the applicable conservative soil categories for the Site are S-1/GW-2 and S-1/GW-3. The applicable groundwater categories for this Site are GW-2 and GW-3.

## **5.2 Identification of Exposure Point Concentrations and Evaluation to Applicable MCP Method 1 Standards**

### **5.2.1 Soil EPCs**

Table 3 contains a summary of the soil concentrations at the Site. As shown in Table 3, none of the detected concentrations in soil were identified above the applicable MCP Method 1 S-1/GW-2 and S-1/GW-3 soil standards. EPCs are generally established as the arithmetic mean concentrations of the detected compounds in soil, and are considered to be a conservative estimate of the true mean concentration (i.e., the EPC) for soil given that at least 75% of the samples are either at or below the applicable MCP Method 1, S-1/GW-2 and S-1/GW-3 standard, and no one sample result exceeded ten times the MCP Method 1, S-1/GW-2 and S-1/GW-3 standards. Because all soil samples collected at the Site were below Method 1 S-1/GW-2 and S-2/GW-3 standards, establishing the EPC for Site soil was deemed unnecessary.

### **5.2.2 Groundwater EPCs**

Table 4 contains a summary of the groundwater concentrations at the Site. As shown in Table 4, none of the detected concentrations in groundwater were identified above the applicable MCP Method 1 GW-2 and GW-3 groundwater standards.

### **5.2.3 Results**

Based on the above comparisons of EPCs in soil to the MCP Method 1, S-1/GW-2 and S-1/GW-3 soil standards, and a comparison of concentrations in groundwater to MCP Method 1 GW-2 and GW-3 groundwater standards, a condition of no significant risk to health, public welfare and the environment exists at the Site for current and reasonably foreseeable future Site activities and uses.

## **5.3 Characterization of Risk to Safety**

TRC performed a separate evaluation of the risk of harm to safety posed by the Site pursuant to 310 CMR 40.0960 of the MCP. Current and reasonably foreseeable future conditions at the Site were compared to applicable or suitably analogous safety standards to evaluate whether there is a risk of harm to safety. Conditions that could pose a risk to harm to safety include the following:

- Presence of rusted or corroded drums, containers, open pits, or lagoons;
- Threat of fire or explosion or presence of explosive vapors; and,
- Uncontained materials exhibiting characteristics of corrosivity, reactivity, or flammability.

There are no rusted or corroded drums or containers, open pits, lagoons or other dangerous structures present at the Site. No release-related materials exhibiting the characteristics of corrosivity, reactivity, or flammability were identified. Additionally, conditions at the Site do not pose a threat of fire or explosion. Based on this evaluation, no release-related conditions

were identified which may pose a threat of physical harm or bodily injury to people. Therefore, a condition of no significant risk to safety exists at this Site.

### **5.3.1 *Environmental Risk Characterization***

An environmental risk characterization is intended to characterize the potential risks to Site biota and habitats. According to Figure 3, there is no such potential risk located on-Site. Therefore, a MCP Method 1 risk characterization is the appropriate approach and a Stage I Environmental Screening is not warranted.

### **5.4 *Conclusions of the Risk Characterization [310 CMR 40.0973 (8)]***

Based on the Method 1 Risk Characterization conducted above, TRC concludes that a condition of No Significant Risk of harm to health, safety, public welfare and the environment has been achieved for current and foreseeable future Site conditions.

## **6.0 DATA USABILITY ASSESSMENT AND REPRESENTATIVENESS EVALUATION**

The following subsections presents a discussion of the Site investigation results used to support a Class B-1 RAO pursuant to 310 CMR 40.1056(2)(k) of the MCP and MassDEP Policy WSC-07-350.

### **6.1 Data Usability Assessment**

The data associated with soil and groundwater samples collected in February and March 2009 were reviewed. In general, data are usable for MCP decisions based on a review of accuracy, precision, and sensitivity of the data, and 100% analytical completeness was achieved from all Site data.

Details on the data usability assessment are provided in Appendix F.

#### **6.1.1 Rejection of Analytical Data**

Appendix II of the MCP Representativeness Evaluations and Data Usability Assessments (September 2007) was used to evaluate whether gross failures of quality control existed in the TRC Site data set. There were no gross failures of quality control in the sampling or analytical procedures. As a result, none of the data points were judged to be unusable for the Representativeness Evaluation.

### **6.2 Achievement of Data Quality Objectives**

Data Quality Objectives for the Site program were as follows:

- To assess the potential presence of petroleum-related constituents in soil and groundwater at the Site;
- To evaluate the potential risks posed by Site constituents to human health, safety, public welfare and the environment; and
- To evaluate the results of the Site investigation activities in achieving a condition of No Significant Risk as defined by the MCP.

The data usability assessment determined that the data were usable to achieve project objectives. Any cautions or limitations on the data which could affect the achievement of these objectives or the decision-making process were highlighted.

### **6.3 Representativeness Evaluation**

TRC prepared this Representativeness Evaluation to describe the extent to which Site data provide an accurate representation of Site environmental characteristics pursuant to 310 CMR 40.1056(2)(k) of the MCP and Policy #WSC-07-350 (MCP Representativeness Evaluations and

Data Usability Assessments, September 2007). The precision, accuracy and sensitivity of the Site data used in this Representativeness Evaluation were discussed in the Data Usability Assessment section (Section 6.1) of this RAO. As stated in the Data Usability Assessment, the data are valid as reported and may be used for decision-making purposes.

#### **6.4 Conceptual Site Model**

The Site was the former Morningside Fire Station. The Site operated from approximately 1905 through 1970. After 1970 the Site has been used by the City's emergency response personnel and other City of Pittsfield entities.

As a result of Site investigation activities completed by TRC, contaminants typically associated with USTs containing fuel oil and gasoline, including EPH constituents C<sub>9</sub>-C<sub>18</sub> aliphatic hydrocarbons, acenaphthylene, benzo(a)pyrene, dibenzo(a,h)anthracene, and 2-methylnaphthalene, were identified in soil above applicable RC's but below MCP Method 1 cleanup standards. Concentrations of VPH and EPH in groundwater were below laboratory detection limits in all Site monitoring wells. A summary of soil and groundwater analytical results are provided on Tables 3 and 4, respectively.

Based on the results of the Site investigation activities undertaken by TRC, a Class B-1 RAO has been achieved for the Site, which implies that remedial actions were not necessary to achieve a level of No Significant Risk, and that an AUL is not necessary to ensure the existence or maintenance of a level of No Significant Risk.

#### **6.5 Work Plan, Data Quality Objectives and Data Collection Approach**

##### ***6.5.1 Site Testing***

TRC was retained by the City of Pittsfield through BRPC to excavate USTs and to evaluate the soil and groundwater quality at the Site associated with potential impacts from historical Site uses and USTs. A discussion of TRC's Site investigation activities and sampling rationale are presented in Section 3.0 of this report.

The Data Quality Objectives for TRC's Site testing program were to collect data that could be used to assess the potential presence of petroleum constituents in soil and groundwater; evaluate the potential risks posed by Site constituents to human health, safety, public welfare and the environment; and support Site closure, if appropriate.

##### ***6.5.2 Use of Field/Screening Data***

During TRC's field investigations, TRC used field screening data to aid in the collection of soil samples for laboratory analyses. Field screening for soil samples included use of a PID and the MassDEP Jar Headspace Analytical Screening Procedure to evaluate relative levels of VOCs at various depths during the UST removals and at each soil boring location to guide the selection of samples collected for laboratory analysis. PID readings were recorded on the field boring logs, which have been included in Appendix E. PID headspace readings ranged from non-detect to a

maximum of 7 ppmv recorded from the soil sample collected from boring B-3 at 10-12 ft. Consequently, TRC collected a soil sample at this boring and interval. Field screening also included visual observations for the presence of anthropogenic fill materials (urban fill) including ash, bricks, etc. Urban fill was observed in soil borings B-1, B-2 and B-3.

### ***6.5.3 Selection of Sampling Locations and Depths***

Summaries of the sampling locations, depths, and chemical analyses for the investigative samples collected at the Site are provided in Table 1 of this report. A summary of TRC's soil analytical results are provided in Table 3.

### ***6.5.4 Number and Spatial Distribution of Sampling Locations***

TRC's post excavation soil sampling program was targeted within the tank graves of the two USTs removed from the Site. Based on the dimensions of the UST excavations and MassDEP's UST Closure Assessment Manual (MassDEP, 1996), the number and spatial distribution of post-excavation sampling at the Site is sufficiently representative of Site conditions surrounding the USTs.

TRC's soil boring and sampling program was targeted to areas of known or former USTs and/or biased toward areas of significant historical Site use. Based on historical information, the number and spatial distribution of sampling at the Site is sufficiently representative of Site conditions.

### ***6.5.5 Temporal Distribution of Samples***

The release conditions at this Site do not warrant monitoring over time. No Time Critical Conditions were identified at the Site. Analyzed constituents were not identified in groundwater above the applicable GW-2/GW-3 standards. Non-Aqueous Phase Liquid (NAPL) was not observed in the UST excavation pits or the monitoring wells installed by TRC. No soil concentration exceeded the upper concentration limit (UCL).

### ***6.5.6 Critical Samples***

Critical soil samples are identified as those samples used in the calculation of EPCs for the Method 1 risk characterization presented in Section 3.0, which include all soil boring samples collected by TRC. The sample results for these critical samples are provided in Table 5.

### ***6.5.7 Completeness***

No Site data were rejected as a result of the Data Usability Assessment presented in Section 5.1 of this RAO. Therefore, 100% completeness was achieved for the Site data.

### ***6.5.8 Uncertainty and Inconsistency***

No areas of uncertainty associated with this Representativeness Evaluation were identified.

## 6.6 Conclusion from Representativeness Evaluation

TRC has developed the following conclusions with respect to the representativeness of the Site data to actual Site conditions:

- As indicated by the Data Usability Assessment presented in Section 6.1 of this RAO, the Site data used in this RAO to demonstrate that a condition of No Significant Risk has been achieved are consistent and/or comparable to current MassDEP Compendium of Analytical Methods (CAM) requirements;
- The number of samples, sample depths, spatial and temporal distribution of the samples is sufficient to identify releases from the suspected source areas and to delineate the extent of oil and/or hazardous materials contamination at the Site; and
- No significant discrepancies between Site history information, field screening results, and/or laboratory sample results were identified that would undermine the conclusions of this RAO.

Based on the above conclusions, TRC has determined that the Site data are sufficiently representative of actual Site conditions and may be used to support this Class B-1 RAO.

## **7.0 FEASIBILITY OF ACHIEVING BACKGROUND LEVELS**

The MCP requires that at Sites where cleanup up to a level of No Significant Risk has been performed, an evaluation of the feasibility to achieve or approach background conditions be performed. TRC evaluated the feasibility of achieving or approaching background conditions at the Site using the guidance contained in the July 16, 2004 DEP guidance, “*Conducting Feasibility Evaluations Under the MCP.*” Because response actions were not necessary to achieve a condition of No Significant Risk, an evaluation of the feasibility of achieving background is not required.



## **8.0 PUBLIC NOTIFICATION**

Pursuant to 310 CMR 40.1403, notification of the submittal of this RAO was made to the City of Pittsfield Mayor and Department of Health and Human Services. Refer to Appendix A for copies of the public notification letters.

## 9.0 RESPONSE ACTION OUTCOME STATEMENT

The following summarizes the findings of this Class B-1 RAO:

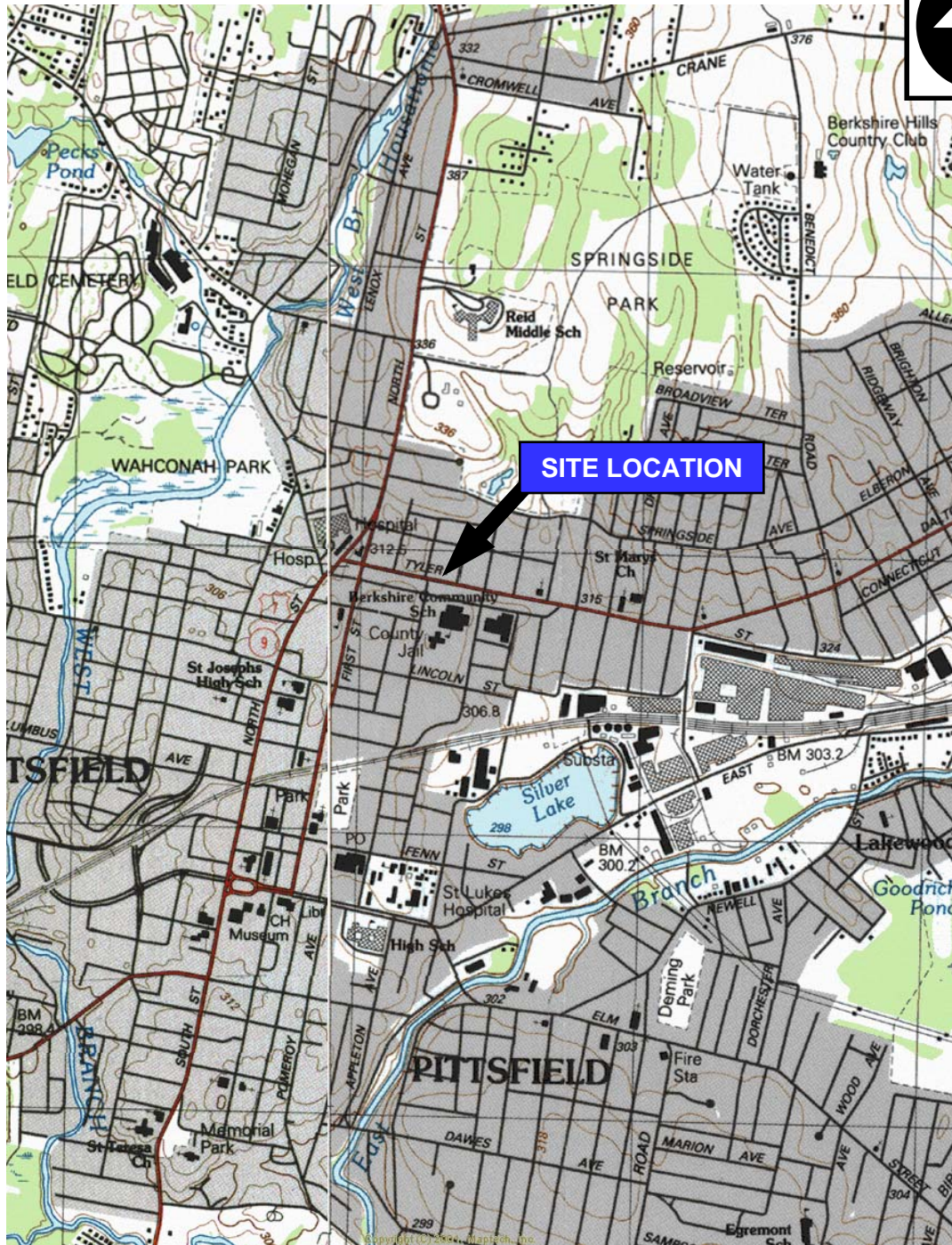
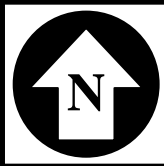
- A condition of No Significant Risk to health, safety, public welfare and the environment for all current and foreseeable future Site activities and uses exists at this Site based upon TRC's investigation activities;
- An Activity and Use Limitation (AUL) is not necessary to maintain a level of No Significant Risk; and
- No UCL exceedances are present at the Site.

It is TRC's opinion that the actions described in this report have been performed in accordance with the MCP. Based on the analytical results from samples collected during TRC's Site investigation activities, TRC concludes that the Site meets the requirements of a Class B-1 RAO per 310 CMR 40.1046(1) of the MCP. A copy of the RAO transmittal form (BWSC-104) is provided in Appendix A. This work has been performed in accordance with the Limitations listed in Appendix G.

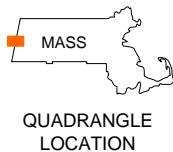
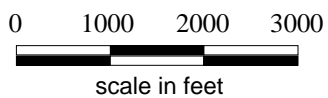
## 10.0 REFERENCES

- MassDEP, 1996. *Guidance for Disposal Site Risk Characterization*. Interim Final Policy WSC/ORS-95-141. April.
- MassDEP, 1996b. *Underground Storage Tank Closure Assessment Manual*, Policy # WSC-402-96, April 9, 1996.
- MassDEP, 2002a. *Technical Update: Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil – In Support of the Massachusetts Contingency Plan* (DEP, 1995). May 23.
- MassDEP, 2002b. *Characterizing Risks Posed by Petroleum Contaminated Sites: Implementation of the MassDEP VPH/EPH Approach – Final Policy*, Policy # WSC-02-411, October 31, 2002.
- MassDEP, 2004. *Conducting Feasibility Evaluations Under the MCP*, Policy # WSC-04-160, July 16, 2004.
- MassDEP, 2007a. *MCP Representativeness Evaluations and Data Usability Assessments*, Policy # WSC-07-350, September 19, 2007.
- MassDEP, 2007b. Massachusetts Contingency Plan, 310 CMR 40.0000, Effective December 14, 2007.
- MassDEP, 2008. *Background Documentation for the Development of MCP Numerical Standards*. Effective February 14, 2008.
- TRC, 2007. *Phase I Environmental Site Assessment – Former Morningside Fire Station, Pittsfield, Massachusetts*, December 21, 2007.

# FIGURES



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' X 15' USGS  
 TOPOGRAPHIC QUADRANGLES: PITTSFIELD EAST, MA, 1988;  
 PITTSFIELD WEST, MA-NY 1988



FORMER MORNINGSIDE FIRE STATION  
 235 TYLER STREET  
 PITTSFIELD, MASSACHUSETTS

**SITE LOCATION MAP**



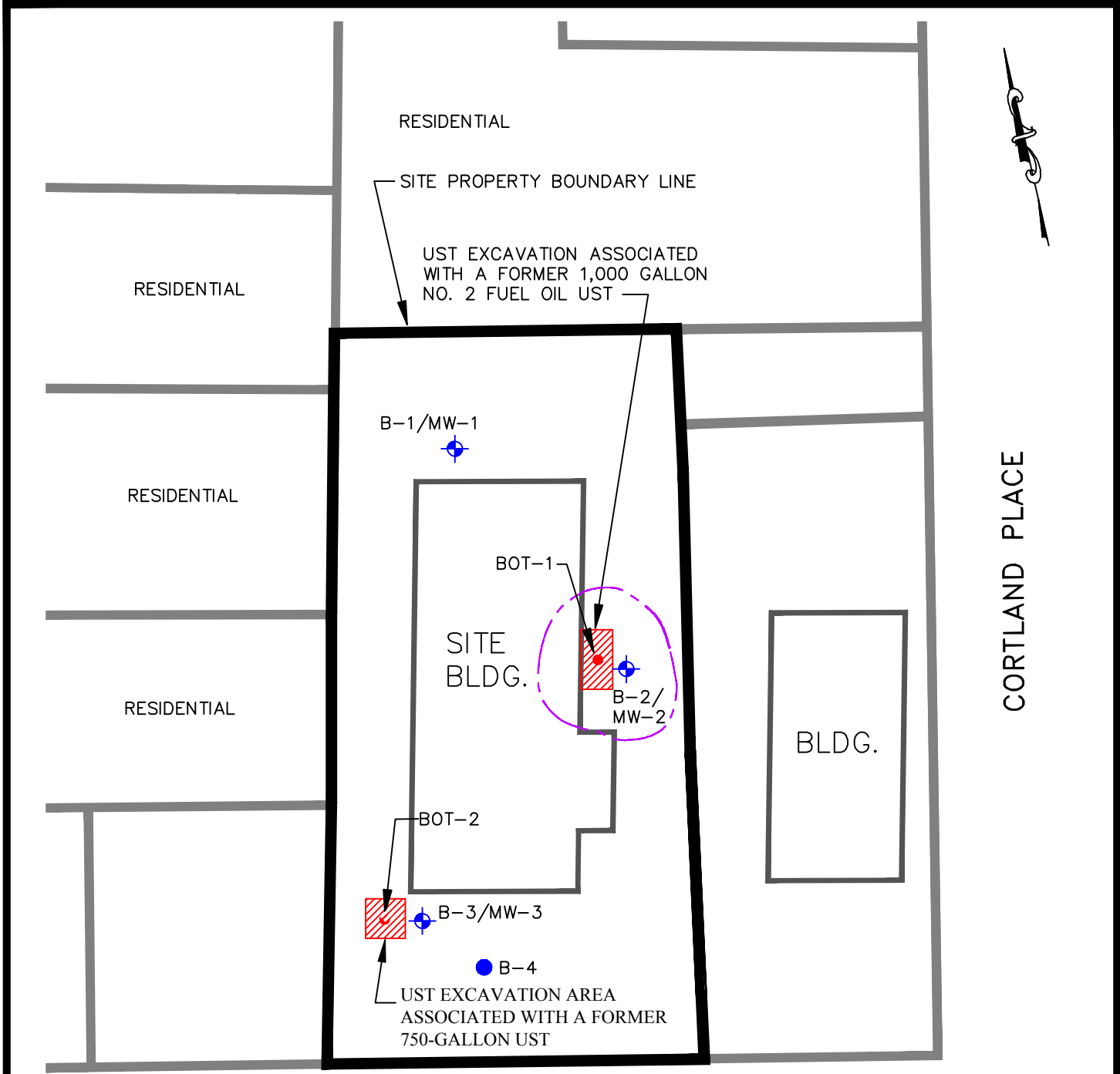
Wannalancit Mills  
 650 Suffolk Street  
 Lowell, MA 01854  
 978-970-5600

**FIGURE  
 1**







Drawn: HWB

Checked: SC

SCALE: AS SHOWN  
 Date 01/25/07



**LEGEND:**

-  SITE PROPERTY BOUNDARY LINE
-  LOT BOUNDARY LINES
-  APPROXIMATE DISPOSAL SITE BOUNDARY LINE
-  MONITORING WELL—  
INSTALLED BY TRC ON 3-24-2009
-  SOIL BORING LOCATION
-  UST EXCAVATION AREA WITH POST EXCAVATION  
SAMPLE LOCATION

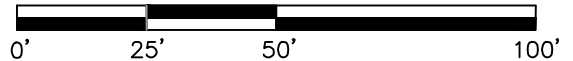
NOTE: TWO COMPOSITE SAMPLES WERE COLLECTED FROM EACH OF THE 4 SIDEWALLS, LABELED COMP-1 AND COMP-2 (NOT SHOWN)

**NOTES:**

1. BASE MAP BASED ON CITY OF PITTSFIELD ASSESSOR'S MAP, BLOCK H11, AND SANBORN MAP DATED 1986.
2. LOCATIONS OF SOIL BORINGS AND MONITORING WELLS ARE BASED UPON FIELD MEASUREMENTS RECORDED WITH A HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) UNIT ON 03/31/09.

TYLER STREET

APPROXIMATE GRAPHIC SCALE



**FORMER MORNINGSIDE FIRE STATION  
235 TYLER STREET  
PITTSFIELD, MASSACHUSETTS**

**DISPOSAL SITE PLAN**



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

FIGURE  
**2**

DRAWN BY: **HWB**

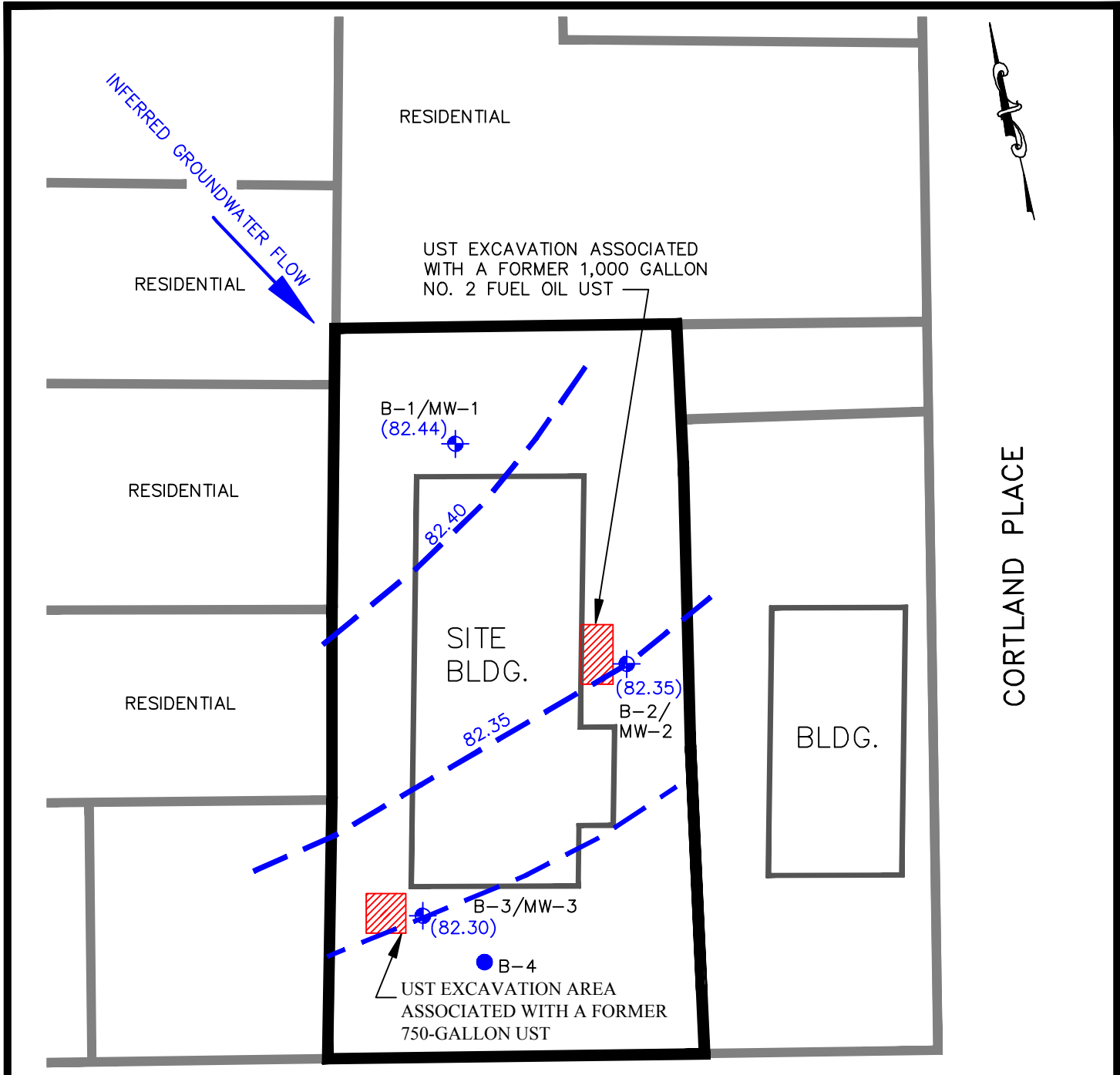
DATE:

CHECKED BY: **ELM**

**MARCH 2009**



FILE: T:\E\_CAD\158037\235 Tyler Pittsfield Site - Dis Site - GW.dwg



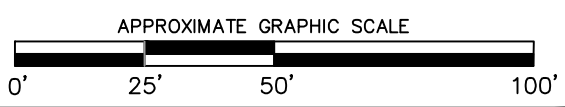
**LEGEND:**

- SITE PROPERTY BOUNDARY LINE
- LOT BOUNDARY LINES
- GROUNDWATER CONTOURS
- INFERRED GROUNDWATER FLOW
- (82.30) MONITORING WELL - GROUNDWATER ELEVATION (IN PARENTHESIS) MEASURED ON 3-31-09
- PROPOSED BORING
- UST EXCAVATION AREA

**NOTES:**

1. BASE MAP BASED ON CITY OF PITTSFIELD ASSESSOR'S MAP, BLOCK H11, AND SANBORN MAP DATED 1986.
2. GROUNDWATER ELEVATIONS ARE BASED ON AN ARBITRARY, ON SITE, BENCHMARK (MW-3 COVER) OF 100 FEET ABOVE MEAN SEA LEVEL.
3. LOCATIONS OF SOIL BORINGS AND MONITORING WELLS ARE BASED UPON FIELD MEASUREMENTS RECORDED WITH A HAND-HELD GLOBAL POSITIONING SYSTEM (GPS) UNIT ON 03/31/09.

TYLER STREET



**FORMER MORNINGSIDE FIRE STATION**  
**235 TYLER STREET**  
**PITTSFIELD, MASSACHUSETTS**  
**GROUNDWATER CONTOUR PLAN**  
**MARCH 31, 2009**

|  |  |                           |
|--|--|---------------------------|
|  | Wannalancit Mills<br>650 Suffolk Street<br>Lowell, MA. 01854<br>(978) 970-5600 | <b>FIGURE</b><br><b>4</b> |
|  | DRAWN BY: <b>MB</b><br>CHECKED BY: <b>TB</b>                                   |                           |



# **TABLES**

| <p align="center"><b>Table 1</b><br/> <b>Summary of Soil and Groundwater Samples Collected and Chemical Analytical Parameters (excluding QA/QC samples)</b><br/> <b>Former Morningside Fire Station Site</b><br/> <b>235 Tyler Street</b><br/> <b>Pittsfield, Massachusetts</b></p> |                          |                                |           |          |           |
|---|--------------------------|--------------------------------|-----------|----------|-----------|
| Soil Samples  |                          | Chemical Analytical Parameters |           |          |           |
| Sample I.D.   | Sample Depth (feet bgs)* | VPH                            | EPH       | PCBs     | Lead      |
| <b>Soil Samples</b>   |                          |                                |           |          |           |
| BOT-1   | 8                        | X                              | X         |          |           |
| BOT-2   | 7                        | X                              | X         |          |           |
| COMP-1  | 7-8                      |                                | X         |          |           |
| COMP-2  | 6-7                      |                                | X         |          |           |
| MW-1  | 1-3/2*                   | X                              | X         | X        | X         |
|   | 8-10/9*                  | X                              | X         | X        | X         |
| MW-2  | 1-3/2*                   | X                              | X         | X        | X         |
|   | 8-10/9*                  | X                              | X         | X        | X         |
| MW-3  | 1-3/2*                   | X                              | X         | X        | X         |
|   | 10-12/11*                | X                              | X         | X        | X         |
|   | 16-18/17*                | X                              | X         | X        | X         |
| <b>Groundwater Samples</b>  |                          |                                |           |          |           |
| MW-1  | NA                       | X                              | X         |          | X         |
| MW-2  | NA                       | X                              | X         |          | X         |
| MW-3  | NA                       | X                              | X         |          | X         |
| <b>TOTALS</b>   | NA                       | <b>12</b>                      | <b>14</b> | <b>7</b> | <b>10</b> |

\*Discrete sample depth for VPH analysis; otherwise the sample depth applies to all listed analyses.

VPH – Volatile petroleum hydrocarbons

EPH – Extractable petroleum hydrocarbons

PCBs – Polychlorinated biphenyls

Bgs – Below ground surface

BOT-1: Post-excavation soil sample collected from the base of the former 1,000-gallon No. 2 fuel oil tank excavation

BOT-2: Post-excavation soil sample collected from the base of the former 750-gallon tank excavation

COMP-1: Composite post-excavation soil sample collected from the four sidewalls of the former 1,000-gallon No. 2 fuel oil tank excavation

COMP-2: Composite post-excavation soil sample collected from the four sidewalls of the former 750-gallon tank excavation

**Table 2**  
**Monitoring Well Construction, Groundwater Elevation and Survey Data**  
**Former Morningside Fire Station Site**  
**235 Tyler Street**  
**Pittsfield, MA**

| Well | Total Depth of Well (ft) bgs* | Screen Length (ft) | Ground Surface Elevation (ft AMSL) | Inner PVC Casing Elevation (ft AMSL) | Outer Metal Casing Elevation (ft AMSL) | March 31, 2009 |                          |                                 |
|------|-------------------------------|--------------------|------------------------------------|--------------------------------------|--|----------------|--------------------------|---------------------------------|
|      |                               |                    |                                    |                                      |  | DTW (ft btor)  | Depth to LNAPL (ft btor) | Groundwater Elevation (ft AMSL) |
| MW-1 | 16.5                          | 10                 | 91.91                              | 91.77                                | NA                                     | 9.33           | -                        | 82.44                           |
| MW-2 | 17.2                          | 10                 | 92.89                              | 92.62                                | NA                                     | 10.27          | -                        | 82.35                           |
| MW-3 | 25.3                          | 10                 | 100                                | 99.41                                | NA                                     | 17.11          | -                        | 82.3                            |

Notes: The top of well casing of MW-3 was used for benchmark purposes during the relative elevation survey. Elevations presented in this table are relative to the top of well casing of MW-3, not sea level.  
ft bgs = feet below ground surface  
ft btor = feet below top of inner PVC riser  
DTW = Depth to Water  
LNAPL = Light Non-aqueous Phase Liquid  
\* Total depth of well measured on 3/24/09

**Table 3: Summary of Soil Analytical Results**  
**Former Morningside Fire Station Site**  
**235 Tyler Street**  
**Pittsfield, Massachusetts**

| Analysis                        | Analyte               | UST Post-Excavation Soil Samples                  |          |                      |                        |                      |                        |                            |                  |                |            | Phase II Soil Boring Locations |             |             |             |            |            |             |             |
|---------------------------------|-----------------------|---|----------|----------------------|------------------------|----------------------|------------------------|----------------------------|------------------|----------------|------------|--------------------------------|-------------|-------------|-------------|------------|------------|-------------|-------------|
|                                 |                       | MCP Method 1                                      |          |                      |                        | RC<br>S-1            | Background             | 1000-gallon No. 2 fuel oil |                  | 750-gallon UST |            | MW-1                           |             | MW-2        |             | MW-3       |            |             |             |
|                                 |                       | S-1/GW-2  | S-1/GW-3 | S-2/GW-2             | S-2/GW-3               |                      |                        | BOT-1                      | COMP-1           | BOT-2          | COMP-2     | 1-3/2*                         | 8-10/9*     | 1-3/2*      | 8-10/9*     | 1-3/2*     | 1-3/2*     | 10-12/11*   | 16-18/17*   |
|                                 |                       | Sample ID:<br>Sample Depth (ft.):<br>Sample Date: |          |                      |                        | 8<br>2/25/2009       | 7-8<br>2/25/2009       | 7<br>2/25/2009             | 6-7<br>2/25/2009 | 3/23/2009      | 3/23/2009  | 3/23/2009                      | 3/23/2009   | 3/23/2009   | 3/23/2009   | 3/23/2009  | 3/23/2009  | 3/23/2009   | 3/23/2009   |
|                                 |                       |   |          | (base of excavation) | (4-sidewall composite) | (base of excavation) | (4-sidewall composite) |                            |                  |                |            |                                |             |             |             |            |            |             |             |
| <b>VPH</b><br>(mg/kg)           | C5-C8 Aliphatics      | 100   | 100      | 500                  | 500                    | 100                  | NS                     | 18.3 U                     | NA               | 10.2 U         | NA         | 19.3 U                         | 16.5 U      | 21.1 U      | 14.5 U      | 18.4 U     | 19.2 U     | 20.1 U      | 15.3 U      |
|                                 | C9-C12 Aliphatics     | 1,000   | 1,000    | 3,000                | 3,000                  | 1,000                | NS                     | <b>37.9</b>                | NA               | 6.74 U         | NA         | 12.9 U                         | 11.0 U      | 14.1 U      | 9.65 U      | 12.3 U     | 12.8 U     | 13.4 U      | 10.2 U      |
|                                 | C9-C10 Aromatics      | 100   | 100      | 500                  | 500                    | 100                  | NS                     | <b>72.8</b>                | NA               | 6.74 U         | NA         | 12.9 U                         | 11.0 U      | 14.1 U      | 9.65 U      | 12.3 U     | 12.8 U     | 13.4 U      | 10.2 U      |
|                                 | Benzene               | 30  | 30       | 200                  | 200                    | 2                    | NS                     | 0.061 U                    | NA               | 0.034 U        | NA         | 0.065 U                        | 0.055 U     | 0.071 U     | 0.049 U     | 0.062 U    | 0.064 U    | 0.067 U     | 0.051 U     |
|                                 | Ethylbenzene          | 500   | 500      | 1000                 | 1000                   | 40                   | NS                     | 0.061 U                    | NA               | 0.034 U        | NA         | 0.065 U                        | 0.055 U     | 0.071 U     | 0.049 U     | 0.062 U    | 0.064 U    | 0.067 U     | 0.051 U     |
|                                 | MTBE                  | 100   | 100      | 100                  | 500                    | 0.1                  | NS                     | 0.061 U                    | NA               | 0.034 U        | NA         | 0.065 U                        | 0.055 U     | 0.071 U     | 0.049 U     | 0.062 U    | 0.064 U    | 0.067 U     | 0.051 U     |
|                                 | Naphthalene           | 40  | 500      | 40                   | 1000                   | 4                    | 1.0                    | <b>3.83</b>                | NA               | 0.337 U        | NA         | 0.641 U                        | 0.550 U     | 0.701 U     | 0.483 U     | 0.614 U    | 0.639 U    | 0.668 U     | 0.509 U     |
|                                 | Toluene               | 500   | 500      | 1000                 | 1000                   | 30                   | NS                     | 0.061 U                    | NA               | 0.034 U        | NA         | 0.065 U                        | 0.055 U     | 0.071 U     | 0.049 U     | 0.062 U    | 0.064 U    | 0.067 U     | 0.051 U     |
|                                 | m/p-Xylene            | 300   | 500      | 300                  | 1000                   | 300                  | NS                     | 0.122 U                    | NA               | 0.068 U        | NA         | <b>0.204</b>                   | 0.110 U     | 0.141 U     | 0.097 U     | 0.123 U    | 0.128 U    | 0.134 U     | 0.102 U     |
|                                 | o-Xylene              | 300   | 500      | 300                  | 1000                   | 300                  | NS                     | <b>0.257</b>               | NA               | 0.034 U        | NA         | <b>0.087</b>                   | 0.055 U     | 0.071 U     | 0.049 U     | 0.062 U    | 0.064 U    | 0.067 U     | 0.051 U     |
|                                 | <b>EPH</b><br>(mg/kg) | C9-C18 Aliphatics                                 | 1,000    | 1,000                | 3,000                  | 3,000                | 1,000                  | NS                         | <b>1,390</b>     | 34.0 U         | 32.6 U     | 32.1 U                         | 34.5 U      | 165 U       | 35.3 U      | 31.3 U     | 33.5 U     | 33.4 U      | 32.7 U      |
| C19-C36 Aliphatics              |                       | 3,000   | 3,000    | 5,000                | 5,000                  | 3,000                | NS                     | <b>457</b>                 | 34.0 U           | 32.6 U         | 32.1 U     | 34.5 U                         | 165 U       | 35.3 U      | 31.3 U      | <b>179</b> | <b>179</b> | <b>45.3</b> | 31.6 U      |
| C11-C22 Aromatics               |                       | 1,000   | 1,000    | 3,000                | 3,000                  | 1,000                | NS                     | <b>579</b>                 | 34.0 U           | 32.6 U         | 32.1 U     | 34.5 U                         | <b>171</b>  | 35.3 U      | 31.3 U      | 33.5 U     | 33.4 U     | 32.7 U      | 31.6 U      |
| Acenaphthene                    |                       | 1,000   | 1,000    | 3,000                | 3,000                  | 4                    | 2.0                    | <b>1.8</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | 0.6 U       | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Acenaphthylene                  |                       | 600   | 10       | 600                  | 10                     | 1                    | 1.0                    | <b>2.1</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | 0.6 U       | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Anthracene                      |                       | 1,000   | 1,000    | 3,000                | 3,000                  | 1,000                | 4.0                    | <b>1.3</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | 0.2 U       | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Benzo(a)anthracene              |                       | 7   | 7        | 40                   | 40                     | 7                    | 9.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | <b>0.4</b> | 0.2 U                          | <b>3.7</b>  | <b>0.3</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Benzo(a)pyrene                  |                       | 2   | 2        | 4                    | 4                      | 2                    | 7.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | <b>0.4</b> | 0.2 U                          | <b>3.5</b>  | <b>0.3</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Benzo(b)fluoranthene            |                       | 7   | 7        | 40                   | 40                     | 7                    | 8.0                    | 0.2 U                      | 0.2 U            | <b>0.2</b>     | <b>0.5</b> | 0.2 U                          | <b>5.2</b>  | <b>0.5</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Benzo(g,h,i)perylene            |                       | 1,000   | 1,000    | 3,000                | 3,000                  | 1,000                | 3.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | <b>0.5</b> | 0.2 U                          | <b>2.8</b>  | <b>0.3</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Benzo(k)fluoranthene            |                       | 70  | 70       | 400                  | 400                    | 70                   | 4.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | <b>1.9</b>  | <b>0.2</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Chrysene                        |                       | 70  | 70       | 400                  | 400                    | 70                   | 7.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | <b>0.4</b> | 0.2 U                          | <b>4.1</b>  | <b>0.4</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Dibenzo(a,h)anthracene          |                       | 0.7   | 0.7      | 4                    | 4                      | 0.7                  | 1.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | <b>0.9</b>  | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Fluoranthene                    |                       | 1,000   | 1,000    | 3,000                | 3,000                  | 1,000                | 10                     | <b>0.5</b>                 | <b>0.2</b>       | 0.2 U          | <b>0.5</b> | <b>0.2</b>                     | <b>8.4</b>  | <b>0.5</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Fluorene                        |                       | 1,000   | 1,000    | 3,000                | 3,000                  | 1,000                | 2.0                    | <b>3.9</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | 0.6 U       | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Indeno(1,2,3-cd)pyrene          |                       | 7   | 7        | 40                   | 40                     | 7                    | 3.0                    | 0.2 U                      | 0.2 U            | 0.2 U          | <b>0.4</b> | 0.2 U                          | <b>3.0</b>  | <b>0.3</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| 2-Methylnaphthalene             |                       | 80  | 300      | 80                   | 500                    | 0.7                  | 1.0                    | <b>4.5</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | 0.6 U       | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Naphthalene                     |                       | 40  | 500      | 40                   | 1,000                  | 4                    | 1.0                    | <b>1.3</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | 0.6 U       | 0.2 U       | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Phenanthrene                    |                       | 500   | 500      | 1,000                | 1,000                  | 10                   | 20                     | <b>2.4</b>                 | 0.2 U            | 0.2 U          | 0.2 U      | 0.2 U                          | <b>4.7</b>  | <b>0.2</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       | 0.2 U       |
| Pyrene                          | 1,000                 | 1,000   | 3,000    | 3,000                | 1,000                  | 20                   | <b>1.2</b>             | <b>0.2</b>                 | 0.2 U            | 0.2 U          | <b>0.6</b> | <b>0.2</b>                     | <b>8.2</b>  | <b>0.6</b>  | 0.2 U       | 0.2 U      | 0.2 U      | 0.2 U       |             |
| <b>PCBs</b><br>(mg/kg)          | PCB 1016              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1221              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1232              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1242              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1248              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1254              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1260              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
|                                 | PCB 1262              | 2   | 2        | 3                    | 3                      | 2                    | NS                     | NA                         | NA               | NA             | NA         | 0.116 U                        | 0.110 U     | 0.118 U     | 0.106 U     | 0.112 U    | 0.113 U    | 0.110 U     | 0.107 U     |
| PCB 1268                        | 2                     | 2   | 3        | 3                    | 2                      | NS                   | NA                     | NA                         | NA               | NA             | 0.116 U    | 0.110 U                        | 0.118 U     | 0.106 U     | 0.112 U     | 0.113 U    | 0.110 U    | 0.107 U     |             |
| <b>Metals, total</b><br>(mg/kg) | Lead                  | 300   | 300      | 300                  | 300                    | 300                  | 600                    | NA                         | NA               | NA             | NA         | <b>88.6</b>                    | <b>95.0</b> | <b>62.2</b> | <b>10.1</b> | <b>296</b> | <b>276</b> | <b>146</b>  | <b>9.69</b> |
| <b>Applicable Standards:</b>    |                       |   |          |                      |                        |                      |                        | <b>b</b>                   | <b>b</b>         | <b>b</b>       | <b>b</b>   | <b>a</b>                       | <b>b</b>    | <b>a</b>    | <b>b</b>    | <b>a</b>   | <b>a</b>   | <b>b</b>    | <b>b</b>    |

**Notes:**

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

NA - Sample not analyzed for the listed analyte.

U - Compound was not detected at specified quantitation limit.

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

Values in shaded type exceed the RCS-1 standards, but are below the MCP Method 1 standards

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

RC - Reportable Concentration.

Background - Background Concentration for soil containing coal ash/wood ash.

a - MCP Method 1 S-1/GW-2 and S-1/GW-3.

b - MCP Method 1 S-2/GW-2, S-2/GW-3 and RC S-1.

\* - Sample depth for VPH analysis; otherwise the sample depth applies to all listed analyses.

**Table 4: Summary of Groundwater Analytical Results  
Former Morningside Fire Station Site  
235 Tyler Street  
Pittsfield, Massachusetts**

| Analysis                       | Analyte                | Sample ID:<br>Sample Date: |        |        | MW-1<br>3/31/2009 | MW-2<br>3/31/2009 | MW-3      |                        |
|--------------------------------|------------------------|----------------------------|--------|--------|-------------------|-------------------|-----------|------------------------|
|                                |                        | MCP Method 1               |        | RC     |                   |                   | 3/31/2009 | 3/31/2009<br>Field Dup |
|                                |                        | GW-2                       | GW-3   | GW-2   |                   |                   |           |                        |
| <b>VPH</b><br>(ug/L)           | C5-C8 Aliphatics       | 3,000                      | 50,000 | 3,000  | 100 U             | 100 U             | 100 U     | 100 U                  |
|                                | C9-C12 Aliphatics      | 5,000                      | 50,000 | 5,000  | 100 U             | 100 U             | 100 U     | 100 U                  |
|                                | C9-C10 Aromatics       | 7,000                      | 50,000 | 7,000  | 100 U             | 100 U             | 100 U     | 100 U                  |
|                                | Benzene                | 2,000                      | 10,000 | 2,000  | 1.0 U             | 1.0 U             | 1.0 U     | 1.0 U                  |
|                                | Ethyl Benzene          | 20,000                     | 5,000  | 5,000  | 1.0 U             | 1.0 U             | 1.0 U     | 1.0 U                  |
|                                | MTBE                   | 50,000                     | 50,000 | 5,000  | 1.0 U             | 1.0 U             | 1.0 U     | 1.0 U                  |
|                                | Naphthalene            | 1,000                      | 20,000 | 1,000  | 10.0 U            | 10.0 U            | 10.0 U    | 10.0 U                 |
|                                | Toluene                | 50,000                     | 40,000 | 40,000 | 1.0 U             | 1.0 U             | 1.0 U     | 1.0 U                  |
|                                | m/p-Xylene             | 9,000                      | 5,000  | 5,000  | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | o-Xylene               | 9,000                      | 5,000  | 5,000  | 1.0 U             | 1.0 U             | 1.0 U     | 1.0 U                  |
| <b>EPH</b><br>(ug/L)           | C9-C18 Aliphatics      | 5,000                      | 50,000 | 5,000  | 150 U             | 150 U             | 150 U     | 150 U                  |
|                                | C19-C36 Aliphatics     | NS                         | 50,000 | 50,000 | 150 U             | 150 U             | 150 U     | 150 U                  |
|                                | C11-C22 Aromatics      | 50,000                     | 5,000  | 5,000  | 100 U             | 100 U             | 100 U     | 100 U                  |
|                                | Acenaphthene           | NS                         | 6,000  | 6,000  | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Acenaphthylene         | 10,000                     | 40     | 40     | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Anthracene             | NS                         | 30     | 30     | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Benzo(a)anthracene     | NS                         | 1,000  | 1,000  | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Benzo(a)pyrene         | NS                         | 500    | 500    | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Benzo(b)fluoranthene   | NS                         | 400    | 400    | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Benzo(g,h,i)perylene   | NS                         | 20     | 20     | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Benzo(k)fluoranthene   | NS                         | 100    | 100    | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Chrysene               | NS                         | 70     | 70     | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Dibenzo(a,h)anthracene | NS                         | 40     | 40     | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Fluoranthene           | NS                         | 200    | 200    | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Fluorene               | NS                         | 40     | 40     | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Indeno(1,2,3-cd)pyrene | NS                         | 100    | 100    | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | 2-Methylnaphthalene    | 2,000                      | 20,000 | 2,000  | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
|                                | Naphthalene            | 1,000                      | 20,000 | 1,000  | 2.0 U             | 2.0 U             | 2.0 U     | 2.0 U                  |
| Phenanthrene                   | NS                     | 10,000                     | 10,000 | 2.0 U  | 2.0 U             | 2.0 U             | 2.0 U     |                        |
| Pyrene                         | NS                     | 20                         | 20     | 2.0 U  | 2.0 U             | 2.0 U             | 2.0 U     |                        |
| <b>Metals, total</b><br>(ug/L) | Lead                   | NS                         | 10     | 10     | 7.5 U             | 7.5 U             | 7.5 U     | 7.5 U                  |

**Notes:**

ug/L - micrograms per liter.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

VPH - Volatile Petroleum Hydrocarbons.

EPH - Extractable Petroleum Hydrocarbons.

RC - Reportable Concentration.

# **APPENDIX A**

## **BUREAU OF WASTE SITE CLEANUP (BWSC) TRANSMITTAL FORMS BWSC-103 AND BWSC- 104 AND PUBLIC NOTIFICATION LETTERS**



Wannalancit Mills  
650 Suffolk Street  
Lowell, MA 01854

978.970.5600 PHONE  
978.453.1995 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

August 31, 2009

TRC Reference Number: 158037.000020.080001

Mr. Jim Wilusz, Health Director  
City Hall, Room 204  
70 Allen Street  
Pittsfield, MA 01201-4223

**RE: Notice of a Class B-1 Response Action Outcome  
Former Morningside Fire Station – 235 Tyler Street  
Pittsfield, Massachusetts**

Dear Mr. Wilusz:

On behalf of the City of Pittsfield, and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), TRC Environmental Corporation (TRC) has prepared this letter to inform you that a Class B-1 Response Action Outcome (RAO) has been filed for the Former Morningside Fire Station located at 235 Tyler Street in Pittsfield, Massachusetts.

Environmental investigations conducted at the Site from March 2008 through March 2009 had identified detectable concentrations of volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), and lead in Site soils; however, these concentrations did not exceed applicable MCP Method 1 cleanup standards. Further analysis of the Site soils and the results of a risk evaluation demonstrated that a condition of No Significant Risk exists at the Site. There is no restriction of future Site use.

If you have any questions concerning this letter or the RAO submittal or would like to obtain a copy of the RAO submittal, please do not hesitate to contact Matthew Robbins at TRC at (978) 656-3549 or the Massachusetts Department of Environmental Protection (MassDEP) at (413) 784-1100. File reviews may be scheduled on Wednesdays between 9am and noon, and between 1pm and 4pm at the MassDEP Western Region Office located at 436 Dwight Street in Springfield, Massachusetts.

Sincerely,  
TRC Environmental Corporation

Matthew E. Robbins, PG, LSP  
Sr. Project Manager

Cc: D. Ruffer, City of Pittsfield  
M. Provencher, BRPC  
J. Bryne, EPA  
J. Bourcier, MassDEP



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[www.TRCSolutions.com](http://www.TRCSolutions.com)

August 31, 2009

TRC Reference Number: 158037.000020.080001

Mayor James M. Ruberto  
City Hall  
70 Allen Street  
Pittsfield, MA 01201-4223

**RE: Notice of a Class B-1 Response Action Outcome  
Former Morningside Fire Station – 235 Tyler Street  
Pittsfield, Massachusetts**

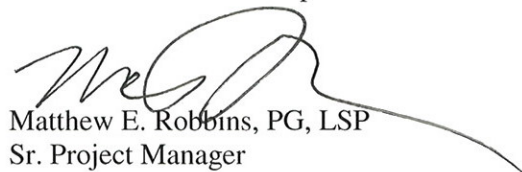
Dear Mayor Ruberto:

On behalf of the City of Pittsfield, and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), TRC Environmental Corporation (TRC) has prepared this letter to inform you that a Class B-1 Response Action Outcome (RAO) has been filed for the Former Morningside Fire Station located at 235 Tyler Street in Pittsfield, Massachusetts.

Environmental investigations conducted at the Site from March 2008 through March 2009 had identified detectable concentrations of volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), and lead in Site soils; however, these concentrations did not exceed applicable MCP Method 1 cleanup standards. Further analysis of the Site soils and the results of a risk evaluation demonstrated that a condition of No Significant Risk exists at the Site. There is no restriction of future Site use.

If you have any questions concerning this letter or the RAO submittal or would like to obtain a copy of the RAO submittal, please do not hesitate to contact Matthew Robbins at TRC at (978) 656-3549 or the Massachusetts Department of Environmental Protection (MassDEP) at (413) 784-1100. File reviews may be scheduled on Wednesdays between 9am and noon, and between 1pm and 4pm at the MassDEP Western Region Office located at 436 Dwight Street in Springfield, Massachusetts.

Sincerely,  
TRC Environmental Corporation



Matthew E. Robbins, PG, LSP  
Sr. Project Manager

Cc: D. Ruffer, City of Pittsfield  
M. Provencher, BRPC  
J. Bryne, EPA  
J. Bourcier, MassDEP





RELEASE NOTIFICATION & NOTIFICATION  
RETRACTION FORM

Release Tracking Number

-

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: Former Morningside Fire Station  
2. Street Address: 235 Tyler Street  
3. City/Town: Pittsfield 4. ZIP Code: 01201-0000  
5. UTM Coordinates: a. UTM N: 4702134 b. UTM E: 644345

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

- 1. Submit a Release Notification
- 2. Submit a Revised Release Notification
- 3. Submit a Retraction of a Previously Reported Notification of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

1. Date and time of Oral Notification, if applicable: \_\_\_\_\_ Time: \_\_\_\_\_  AM  PM  
mm/dd/yyyy hh:mm  
2. Date and time you obtained knowledge of the Release or TOR: 05/12/2009 Time: 11:00  AM  PM  
mm/dd/yyyy hh:mm  
3. Date and time release or TOR occurred, if known: \_\_\_\_\_ Time: \_\_\_\_\_  AM  PM  
mm/dd/yyyy hh:mm

Check all Notification Thresholds that apply to the Release or Threat of Release:  
(for more information see 310 CMR 40.0310 - 40.0315)

4. 2 HOUR REPORTING CONDITIONS

- a. Sudden Release
- b. Threat of Sudden Release
- c. Oil Sheen on Surface Water
- d. Poses Imminent Hazard
- e. Could Pose Imminent Hazard
- f. Release Detected in Private Well
- g. Release to Storm Drain
- h. Sanitary Sewer Release (Imminent Hazard Only)

5. 72 HOUR REPORTING CONDITIONS

- a. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch
- b. Underground Storage Tank (UST) Release
- c. Threat of UST Release
- d. Release to Groundwater near Water Supply
- e. Release to Groundwater near School or Residence
- f. Substantial Release Migration

6. 120 DAY REPORTING CONDITIONS

- a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)
- b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards
- c. Release of Oil to Groundwater Exceeding Reportable Concentration(s)
- d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch



**RELEASE NOTIFICATION & NOTIFICATION  
 RETRACTION FORM**

Release Tracking Number  
 -

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

**C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont.)**

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

| O or HM Released              | CAS Number, if known | O or HM | Amount or Concentration | Units | RCs Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2) |
|-------------------------------|----------------------|---------|-------------------------|-------|--|
| C9-C18 Aliphatic Hydrocarbons |                      | O       | 1390                    | MG/KG | RCS-1  |
| Acenaphthalylene              |                      | O       | 2.1                     | MG/KG | RCS-1  |
| 2-Methylnaphthalene           |                      | O       | 4.5                     | MG/KG | RCS-1  |
|                               |                      |         |                         |       |  |

8. Check here if a list of additional Oil and Hazardous Materials subject to reporting is attached.

**D. PERSON REQUIRED TO NOTIFY:**

1. Check all that apply:  a. change in contact name  b. change of address  c. change in the person notifying

2. Name of Organization: City of Pittsfield

3. Contact First Name: Deanna 4. Last Name: Ruffer

5. Street: 70 Allen Street 6. Title: Director; Dept. of Comm. Develop.

7. City/Town: Pittsfield 8. State: MA 9. ZIP Code: 01201-0000

10. Telephone: (413) 499-9449 11. Ext.: \_\_\_\_\_ 12. FAX: \_\_\_\_\_

13. Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

**E. RELATIONSHIP OF PERSON TO RELEASE OR THREAT OF RELEASE:**

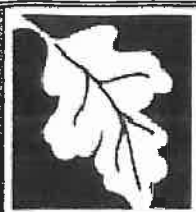
1. RP or PRP  a. Owner  b. Operator  c. Generator  d. Transporter

e. Other RP or PRP Specify: \_\_\_\_\_

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

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

4. Any Other Person Otherwise Required to Notify Specify Relationship: \_\_\_\_\_



RELEASE NOTIFICATION & NOTIFICATION  
RETRACTION FORM

Release Tracking Number

-

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

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

2. By: [Signature] 3. Title: Director; Dept. of Comm. D

Signature

4. For: City of Pittsfield 5. Date: 8-4-09  
(Name of person or entity recorded in Section D) mm/dd/yyyy

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

7. Street: \_\_\_\_\_

8. City/Town: \_\_\_\_\_ 9. State: \_\_\_\_\_ 10. ZIP Code: \_\_\_\_\_

11. Telephone: \_\_\_\_\_ 12. Ext.: \_\_\_\_\_ 13. FAX: \_\_\_\_\_

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

Date Stamp (DEP USE ONLY:)



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

1 - 17533

For sites with multiple RTNs, enter the Primary RTN above.

**A. SITE LOCATION:**

1. Site Name/Location Aid: **FORMER MORNINGSIDEFIRE STATION**

2. Street Address: **235 TYLER ST**

3. City/Town: **PITTSFIELD** 4. ZIP Code: **012010000**

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.  
 a. Tier IA  b. Tier IB  c. Tier IC  d. Tier II

6. If a Tier I Permit has been issued, provide Permit Number:

**B. THIS FORM IS BEING USED TO:** (check all that apply)

1. List Submittal Date of RAO Statement (if previously submitted):  mm/dd/yyyy

2. Submit a **Response Action Outcome (RAO) Statement**

a. Check here if this RAO Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.  
b. Provide additional Release Tracking Number(s) covered by this RAO Statement.  -   -

3. Submit a **Revised Response Action Outcome Statement**

a. Check here if this Revised RAO Statement covers additional Release Tracking Numbers (RTNs), not listed on the RAO Statement or previously submitted Revised RAO Statements. RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.  
b. Provide additional Release Tracking Number(s) covered by this RAO Statement.  -   -

4. Submit a **Response Action Outcome Partial (RAO-P) Statement**

Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This RAO Statement will record only an RAO-Partial Statement for that RTN. A final RAO Statement will need to be submitted that references all RAO-Partial Statements and, if applicable, covers any remaining conditions not covered by the RAO-Partial Statements.  
Also, specify if you are an Eligible Person or Tenant pursuant to M.G.L. c. 21E s.2, and have no further obligation to conduct response actions on the remaining portion(s) of the disposal site:  
 a. Eligible Person  b. Eligible Tenant

5. Submit an optional **Phase I Completion Statement** supporting an RAO Statement

6. Submit a **Periodic Review Opinion evaluating the status of a Temporary Solution** for a Class C-1 RAO Statement, as specified in 310 CMR 40.1051 (Section F is optional)

7. Submit a **Retraction** of a previously submitted **Response Action Outcome Statement** (Sections E & F are not required)

**(All sections of this transmittal form must be filled out unless otherwise noted above)**



RESPONSE ACTION OUTCOME (RAO) STATEMENT

Release Tracking Number

1 - 17533

Pursuant to 310 CMR 40.1000 (Subpart J)

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply; for volumes, list cumulative amounts)

- 1. Assessment and/or Monitoring Only
- 2. Temporary Covers or Caps
- 3. Deployment of Absorbent or Containment Materials
- 4. Treatment of Water Supplies
- 5. Structure Venting System
- 6. Engineered Barrier
- 7. Product or NAPL Recovery
- 8. Fencing and Sign Posting
- 9. Groundwater Treatment Systems
- 10. Soil Vapor Extraction
- 11. Bioremediation
- 12. Air Sparging
- 13. Monitored Natural Attenuation
- 14. In-situ Chemical Oxidation

15. Removal of Contaminated Soils

a. Re-use, Recycling or Treatment  i. On Site Estimated volume in cubic yards

ii. Off Site Estimated volume in cubic yards

ii.a. Facility Name:  Town:  State:

ii.b. Facility Name:  Town:  State:

iii. Describe:

b. Landfill

i. Cover Estimated volume in cubic yards

Facility Name:  Town:  State:

ii. Disposal Estimated volume in cubic yards

Facility Name:  Town:  State:

16. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: **REMOVAL OF ONE 1,000-GALLON UST AND ONE 750-GALLON UST**

b. Facility Name: **GEORGE APKIN & SONS, INC** Town: **NORTH ADAMS** State: **MA**

c. Facility Name:  Town:  State:

17. Removal of Other Contaminated Media:

a. Specify Type and Volume:

b. Facility Name:  Town:  State:

c. Facility Name:  Town:  State:



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Release Tracking Number

Pursuant to 310 CMR 40.1000 (Subpart J)

-

**C. DESCRIPTION OF RESPONSE ACTIONS (cont.):** (check all that apply; for volumes, list cumulative amounts)

18. Other Response Actions:

Describe:

19. Use of Innovative Technologies:

Describe:

**D. SITE USE:**

1. Are the response actions that are the subject of this submittal associated with the *redevelopment*, *reuse* or the *major expansion of the current use* of property(ies) impacted by the presence of oil and/or hazardous materials?

- a. Yes     b. No     c. Don't know

2. Is the property a *vacant or under-utilized commercial or industrial* property ("a brownfield property")?

- a. Yes     b. No     c. Don't know

3. Will funds from a state or federal brownfield incentive program be used on one or more of the property(ies) within the disposal site?

- a. Yes     b. No     c. Don't know    If Yes, identify program(s):

4. Has a Covenant Not to Sue been obtained or sought?

- a. Yes     b. No     c. Don't know

5. Check all applicable categories that apply to the person making this submittal:     a. Redevelopment Agency or Authority

b. Community Development Corporation     c. Economic Development and Industrial Corporation

d. Private Developer     e. Fiduciary     f. Secured Lender     g. Municipality

h. Potential Buyer (non-owner)     i. Other, describe:

**This data will be used by MassDEP for information purposes only, and does not represent or create any legal commitment, obligation or liability on the part of the party or person providing this data to MassDEP.**

**E. RESPONSE ACTION OUTCOME CLASS:**

Specify the Class of Response Action Outcome that applies to the disposal site, or site of the Threat of Release. Select **ONLY** one Class.

1. **Class A-1 RAO:** Specify one of the following:

- a. Contamination has been reduced to background levels.     b. A Threat of Release has been eliminated.

2. **Class A-2 RAO:** You **MUST** provide justification that reducing contamination to or approaching background levels is infeasible.

3. **Class A-3 RAO:** You **MUST** provide an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to or approaching background levels is infeasible.

4. **Class A-4 RAO:** You **MUST** provide an implemented AUL, justification that reducing contamination to or approaching background levels is infeasible, and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface or below an Engineered Barrier is infeasible. If the Permanent Solution relies upon an Engineered Barrier, you must provide or have previously provided a Phase III Remedial Action Plan that justifies the selection of the Engineered Barrier.



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

-

**E. RESPONSE ACTION OUTCOME CLASS (cont.):**

**5. Class B-1 RAO: Specify one of the following:**

- a. Contamination is consistent with background levels
- b. Contamination is **NOT** consistent with background levels.

**6. Class B-2 RAO:** You **MUST** provide an implemented AUL.

**7. Class B-3 RAO:** You **MUST** provide an implemented AUL and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface is infeasible.

**8. Class C-1 RAO:** You must submit a plan as specified at 310 CMR 40.0861(2)(h). Indicate type of ongoing response actions.

- a. Active Remedial System
- b. Active Remedial Monitoring Program
- c. None
- d. Other Specify: \_\_\_\_\_

**9. Class C-2 RAO:** You must hold a valid Tier I Permit or Tier II Classification to continue response actions toward a Permanent Solution.

**F. RESPONSE ACTION OUTCOME INFORMATION:**

1. Specify the Risk Characterization Method(s) used to achieve the RAO described above:

- a. Method 1
- b. Method 2
- c. Method 3
- d. Method Not Applicable-Contamination reduced to or consistent with background, or Threat of Release abated

2. Specify all Soil Category(ies) applicable. More than one Soil Category may apply at a Site. Be sure to check off all **APPLICABLE** categories:

- a. S-1/GW-1
- b. S-1/GW-2
- c. S-1/GW-3
- d. S-2/GW-1
- e. S-2/GW-2
- f. S-2/GW-3
- g. S-3/GW-1
- h. S-3/GW-2
- i. S-3/GW-3

3. Specify all Groundwater Category(ies) impacted. A site may impact more than one Groundwater Category. Be sure to check off all **IMPACTED** categories:

- a. GW-1
- b. GW-2
- c. GW-3
- d. No Groundwater Impacted

4. Specify remediation conducted:

- a. Check here if soil remediation was conducted.
- b. Check here if groundwater remediation was conducted.

5. Specify whether the analytical data used to support the Response Action Outcome was generated pursuant to the Department's Compendium of Analytical Methods (CAM) and 310 CMR 40.1056:

- a. CAM used to support all analytical data.
- b. CAM used to support some of the analytical data.
- c. CAM not used.

6. Check here to certify that the Class A, B or C Response Action Outcome includes a Data Usability Assessment and Data Representativeness Evaluation pursuant to 310 CMR 40.1056.

7. Estimate the number of acres this RAO Statement applies to:



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Release Tracking Number

1 - 17533

Pursuant to 310 CMR 40.1000 (Subpart J)

**G. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B indicates that either an **RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion** is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

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

1. LSP #:

2. First Name:  3. Last Name:

4. Telephone:  5. Ext.:  6. FAX:

7. Signature:

8. Date:   
mm/dd/yyyy

9. LSP Stamp:

**H. PERSON MAKING SUBMITTAL:**

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

2. Name of Organization:

3. Contact First Name:  4. Last Name:

5. Street:  6. Title:

7. City/Town:  8. State:  9. ZIP Code:

10. Telephone:  11. Ext.:  12. FAX:





RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

1 - 17533

I. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:

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

e. Other RP or PRP Specify: **PRP GENERIC OR NON-SPECIFIED**

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

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

4. Any Other Person Making Submittal Specify Relationship:

J. REQUIRED ATTACHMENT AND SUBMITTALS:

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

2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of an RAO Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.

3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a RAO Statement with instructions on how to obtain a full copy of the report.

4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this RAO Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.

5. Check here to certify that, pursuant to 310 CMR 40.1406, notice was provided to the owner(s) of each property within the disposal site boundaries, or notice was not required because the disposal site boundaries are limited to property owned by the party conducting response actions. (check all that apply)

a. Notice was provided prior to, or concurrent with the submittal of a Phase II Completion Statement to the Department.

b. Notice was provided prior to, or concurrent with the submittal of this RAO Statement to the Department.

c. Notice not required. d. Total number of property owners notified, if applicable:

6. Check here if required to submit one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for Class A-3, A-4, B-2, B-3 RAO Statements)

a. Notice of Activity and Use Limitation b. Number of Notices submitted:

c. Grant of Environmental Restriction d. Number of Grants submitted:

7. If an RAO Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that an RAO Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.

8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.

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



**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

1 - 17533

**K. CERTIFICATION OF PERSON MAKING SUBMITTAL:**

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

2. By: \_\_\_\_\_ Signature  
3. Title: **DIRECTOR**

4. For: **CITY OF PITTSFIELD**  
(Name of person or entity recorded in Section H)  
5. Date: \_\_\_\_\_ mm/dd/yyyy

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

7. Street: \_\_\_\_\_

8. City/Town: \_\_\_\_\_ 9. State: \_\_\_\_\_ 10. ZIP Code: \_\_\_\_\_

11. Telephone: \_\_\_\_\_ 12. Ext.: \_\_\_\_\_ 13. FAX: \_\_\_\_\_

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

Date Stamp (DEP USE ONLY:)



**APPENDIX B**

**GEOPHYSICAL SURVEY REPORT**



March 27<sup>th</sup>, 2008  
File 2008024

TRC Solutions  
Attention: Tom Biolsi  
Wannalancit Mills  
650 Suffolk Street  
Lowell, MA 01854

Re: Geophysical Survey for USTs  
Former Morningside Fire Station  
235 Tyler Street  
Pittsfield, Massachusetts

Dear Mr. Biolsi:

This letter details the results of a geophysical survey conducted by Hager GeoScience, Inc. (HGI) for TRC Solutions (TRC) at the former Morningside Fire Station in Pittsfield, Massachusetts. The objective of the survey was to locate USTs suspected to be present at the site. HGI personnel conducted the investigation on Tuesday, March 18<sup>th</sup>, 2008.

## **DATA COLLECTION AND EQUIPMENT**

HGI personnel laid out survey grids using spray paint and fiberglass tapes. Distances were taped from fixed surface cultural features, including fence posts, building corners, etc., and were recorded in the survey notes.

Geophysical data were collected using ground penetrating radar (GPR) and electromagnetic terrain conductivity (EM) methods. A detailed description of the geophysical methods and their limitations is presented in Appendix A at the end of this report.

### **GPR Data Collection**

GPR data were collected in all accessible portions of the site along orthogonal traverses spaced 2.5 feet apart. The locations of the GPR traverses are shown on Plate 1, an AutoCAD map produced from the HGI field notes and overlaid on a base map provided by TRC.

HGI collected the GPR data using a GSSI SIR-2000 acquisition system and 400-MHz antenna. A survey wheel was used to maintain horizontal distance control. Data were recorded using a time range of 90 nanoseconds (ns), for a depth penetration of approximately 13 to 15 feet. The horizontal data density was 22 scans per foot. The SIR-2000 system displayed data in real time for quality control and initial data review purposes. All data were stored on the system's hard

Geophysical Survey for USTs  
Former Morningside Fire Station  
235 Tyler Street  
Pittsfield, Massachusetts

File 2008024  
Page 2

drive and transferred to PC for later signal processing using RADAN for Windows NT™ software.

### **EM Data Collection**

EM data were collected in the potential UST areas to supplement the GPR survey. Data collection was performed using a GSSI Profiler EMP-400, a portable multi-frequency EM terrain conductivity system featuring wireless Bluetooth™ data communication to a PDA. EM data were collected at 5-foot spacing in the north-south direction and 2.5-foot spacing in the east-west direction.

### **RESULTS**

Plates 1 and 2 are the geophysical survey interpretation plots overlaid on the TRC base map. Two USTs were identified and are labeled as such on the plates, along with several interpreted utilities. The GPR overlay is shown in Plate 1 and the EM overlay on Plate 2. The color contour map on Plate 2 is produced from the 10,000-Hertz in-phase EM data. Approximate depths in feet are based on the conversion of GPR signal velocity to distance.

Please contact us at (781) 935-8111 if you have questions or need additional information.

Respectfully yours,  
HAGER GEOSCIENCE, INC.

A handwritten signature in black ink, appearing to read "Jutta Hager".

Jutta Hager, Ph.D.  
President

## APPENDIX A. THE GEOPHYSICAL TECHNIQUES

### A.1 GROUND PENETRATING RADAR

**A.1.1. Description of the Method.** The principle of ground penetrating radar (GPR) is the same as that used by police radar, except that GPR transmits electromagnetic energy into the ground. The energy is reflected back to the surface from interfaces between materials with contrasting electrical (dielectric and conductivity) and physical properties. The greater the contrast between two materials in the subsurface, the stronger the reflection observed on the GPR record. The depth of GPR signal penetration depends on the properties of the subsurface materials and the frequency of the antenna used to collect radar data. The lower the antenna frequency, the greater the signal penetration, but the lower the signal resolution.

**A.1.2. Data Collection.** HGI collects GPR data using a Geophysical Survey Systems (GSSI) SIR 2, SIR 2000, or SIR 3000 ground penetrating radar system. Data are digitally recorded on the internal hard drive or flash memory of the GPR system. System controls allow the GPR operator to filter out noise, attributed to coupling noise caused by conductive soil conditions, spurious noise caused by local EMF fields, and internal system noise. For shallow surveys, we use 1500-, 900-, 400-, or 200-megahertz (MHz) antennas. For deeper penetration, we use lower frequency antennas ranging from 200 MHz to 15 MHz, depending on the anticipated target depth and the degree of signal penetration. All of these antenna configurations can collect data in continuous mode, distance mode, or as discrete point measurements using signal-stacking techniques. Since there is a trade-off between signal penetration and resolution, test data are sometimes collected using antennas at several different frequencies, with the highest frequency antenna that produces the highest quality data used. In some cases, data are collected with several antenna frequencies.

The horizontal scale of the GPR record shows distance along the survey traverse. In the continuous data collection mode, the horizontal scale on each GPR record is determined by the antenna speed along the surface. When a survey wheel is used, the GPR system records data with a fixed number of traces per unit distance. The GPR record is automatically marked at specified distance intervals along the survey line. The vertical scale of the radar record is determined by the velocity of the transmitted signal in the media under study and the range setting, or recording time window of the GPR system. The recording time interval, or range, represents the maximum two-way travel time in which data are recorded. The conversion of the two-way travel time of the transmitted signals to depth is determined by the propagation velocity of the GPR signal, which is site (media) specific. When little or no information is available about the makeup of subsurface materials, we estimate propagation velocities from handbook values and experience at similar sites or by CDP velocity surveys with a bi-static antenna.

**A.1.3. Data Processing.** After completion of data collection, the GPR data are transferred to a PC for review and processing using RADAN NT for Windows™ software. When appropriate, we prepare 3D models of GPR data, which can be sliced in the X, Y, and Z directions.

The size, shape, and amplitude of GPR reflections are used to interpret GPR data. Objects such as metallic UST's and utilities produce reflections with high amplitude and distinctive hyperbolic shapes. Clay, concrete pipes boulders and other in-situ features may produce radar signatures of similar shape but lower amplitude. The boundaries between saturated and unsaturated materials such as sand and clay, bedrock and overburden, generally also produce strong reflections.

**A.1.4. Limitations of the Method.** GPR signal penetration is site-specific. It is determined by the dielectric properties of local soil and fill materials. GPR signals propagate well in resistive materials such as sand and gravel; however, soils containing clay, ash- or cinder-laden fill or fill saturated with brackish or otherwise electrically conductive groundwater cause GPR signal attenuation and loss of target resolution. Concrete containing rebar or wire mesh also inhibits signal penetration.

The interpreted depths of objects detected using GPR are based on on-site calibration, handbook values, and/or estimated GPR signal propagation velocities from similar sites. GPR velocities and depth estimates may vary if the medium under investigation or soil water content is not uniform throughout the site.

Utilities are interpreted on the basis of reflections of similar size and depth that exhibit a linear trend; however GPR cannot unambiguously determine that all such reflectors are related. Fiberglass USTs or utilities composed of plastic or clay may be difficult to detect if situated in soils with similar electromagnetic properties, or if situated in fill with other reflecting targets that generate "clutter" or signal scattering and thus obscure other deeper reflectors. Objects buried beneath reinforced concrete pads or slabs may also be difficult, but possible, to detect.

As a rule of thumb, GPR can resolve utilities with a diameter of 1" per foot of depth (i.e., a 1" diameter utility can be detected to a burial depth of 1 foot).

Changes in the speed at which the GPR antenna is moved along the surface causes slight variations in the horizontal scale of the recorded traverse. Distance interpolation may be performed to minimize the error in interpreted object positions. The variation in the horizontal scale of the GPR record may be controlled, to a certain extent, with a distance encoder or survey wheel. The GPR antenna produces a cone-shaped signal pattern that emanates approximately 45 degrees from horizontal front and back of the antenna. Therefore, buried objects may be detected before the antenna is located directly over them. GPR anomalies may appear larger than actual target dimensions.

GPR interpretation is more subjective than other geophysical methods. The interpretive method is based on the identification of reflection patterns that do not uniquely identify a subsurface target. Borings, test pits, site utility plans and other ground-truth are recommended to verify the interpreted GPR results.

## **A.2 EM TERRAIN CONDUCTIVITY**

**A.2.1. Description of the Method.** The EM technique operates on the principle that secondary electric and magnetic currents can be induced in metal objects and conductive bodies, such as USTs, utilities, and leachate, when an electric field is applied. This instrumentation measures the secondary magnetic field strength relative to the primary magnetic field and converts it directly into a conductivity value. Both the quadrature-phase (conductivity) and in-phase components of the secondary electric field are measured and values plotted in parts per million (ppm). In general, the quadrature-phase (conductivity) data provide information about soil and groundwater conditions, while the in-phase data provide information about metal objects. The instrument response is more affected by near surface than by deeper material.

We collect terrain conductivity data using either a GSSI Profiler EMP-400 or GEM-300 multi-frequency electromagnetic profiler, which are field-programmable to operate at simultaneous, multiple frequencies between 325 and 19975 Hz. The Profiler is designed for near-surface investigations, whereas the GEM can reach nominal depths of 15 to 20 feet.

**A.2.2. Data Analysis and Interpretation.** Terrain conductivity surveys are commonly used to determine the lateral extent of fill and detect buried metal objects, utilities, and conductive leachate plumes. Typically, terrain conductivity values measured on fill materials are irregular and highly variable over short distances due to metal and the heterogeneous materials in the subsurface. The edge of fill materials is marked by a change to smoothly varying terrain conductivity values that represent native soils.

At sites free of metal objects and other cultural interference, the soil lithology and/or the conductivity of the ground water control the terrain conductivity measured at a particular location. In the presence of metal, conductivity values are often negative ("polarity reversals") and highly irregular. However, the exact identification of objects cannot be determined from the terrain conductivity data alone. The in-phase component helps confirm the location of metal objects when correlated with conductivity data. Irregular or high positive or negative in-phase values may be caused by metal objects and help define their lateral extent.

Leachate plumes are generally recognized by relatively smoothly varying, but anomalously elevated, conductivity values, compared to background values for a given site. The value of the in-phase component resulting from conductive plumes generally shows little or no variation.

**A.2.3. Limitations of the Method.** EM conductivity values are influenced by proximity to aboveground metal objects, such as fences, vehicles, or buildings. Magnetic fields produced along overhead power lines also interfere with terrain conductivity readings.

The shape and amplitude of conductivity and in-phase anomalies do not uniquely describe a buried object or material. Rather, they are influenced by the orientation of EM survey lines and the buried object(s) relative to north, and the orientation of the EM sensor relative to this buried object(s). To better locate the source(s) of EM conductivity and in-phase anomalies, data are



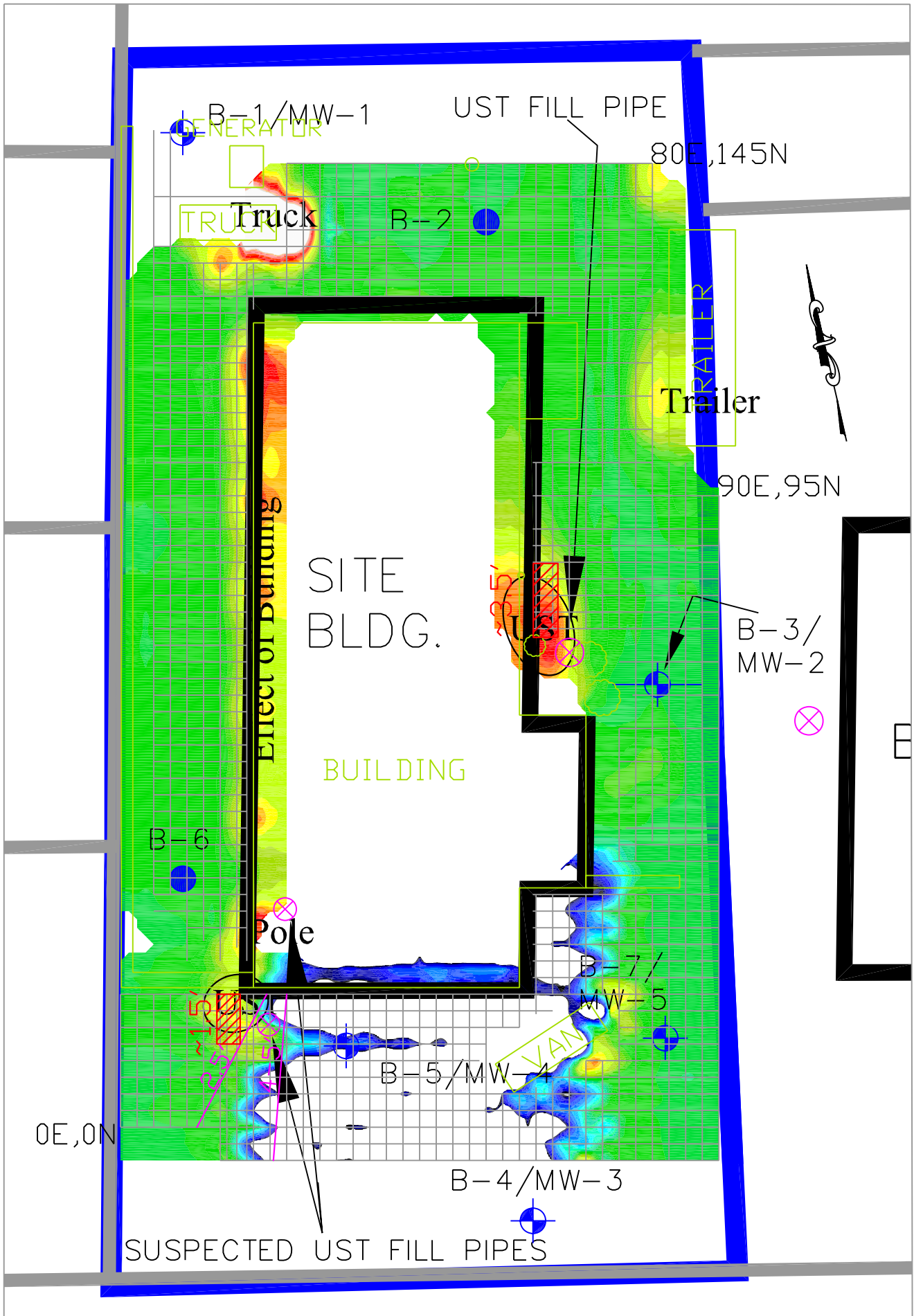
frequently collected in two perpendicular directions.

High ambient conductivity readings (from a conductivity plume, sludge, or naturally occurring geologic condition) may mask anomalous conductivity values caused by metal objects. Evaluating the in-phase component of the data minimizes this effect.

Closely spaced buried utilities may produce anomalies that interfere with each other. Hence, in areas where numerous utilities are present, the observed anomaly may result from an interference pattern and may not uniquely describe the location of a specific utility. Further, anomalies often appear larger than the object that produces them.

Smaller utilities, or utilities constructed from reinforced concrete, may be masked by larger utilities constructed of metal. Nonmetallic fill such as unreinforced concrete rubble and utilities constructed from PVC, clay, or unreinforced concrete may not be detected





NOTE:  
 BASE MAP BASED ON CITY OF PITTSFIELD ASSESSOR'S MAP, BLOCK H11, AND SANBORN MAP DATED 1986.



SCALE in FEET

PLATE 2

MARCH 2008

FILE NO. 2008024

EM INTERPRETATION PLOT  
 FORMER FIRE STATION  
 235 TYLER STREET  
 PITTSFIELD, MA

Hager GeoScience, Inc.  
 596 Main Street, Woburn, MA 01801  
 (781) 935-8111 hgi@hagergeoscience.com

NOT ALL SUBSURFACE UTILITIES MAY BE  
 DEPICTED ON THIS MAP

LEGEND

- GPR TRAVERSE
- UTILITY
- ▨ UST
- SURFACE FEATURE

# **APPENDIX C**

## **UNDERGROUND STORAGE TANK PERMITS**

Make application to local Fire Department.  
Fire Department retains original application and issues duplicate as Permit.



Commonwealth of Massachusetts  
Department of Fire Services -- Office of the State Fire Marshal

UST

# APPLICATION and PERMIT

Fee: 25.00

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00, application is hereby made by:

### Tank Owner

Tank Owner Name (please print) City of Pittsfield  
Address 231 Tyler Street Pittsfield MA 01201  
Street City State Zip

### Removal Contractor

Company Name Miller's Petroleum System  
Address 875 Crane Ave, Pittsfield, MA  
Signature (If applying for permit) [Signature]  
 IFCI Certified  Other

### Contamination Assessment

Co. or Individual Kevin Katchin (TRC)  
Address 650 Suffolk St Lowell, MA  
Signature (If applying for permit) [Signature]  
 IFCI Certified  LSP #  Other

### Tank Information

Tank Location 231 Tyler Street  
Tank Capacity (gallons) 9200 gallon Substance Last Stored \_\_\_\_\_  
Tank Dimensions (diameter x length) 40' x 8'  
Remarks: \_\_\_\_\_

GEORGE APKIN & SONS, INC.  
P. O. BOX 509  
NORTH ADAMS, MA 01247-0509

### Disposal Information

Firm transporting waste N/A State Lic. # \_\_\_\_\_  
Hazardous waste manifest# salvage E.P.A. # \_\_\_\_\_  
Approved tank disposal yard Geo Apkin + Son Tank yard # \_\_\_\_\_  
Type of inert gas nitrogen Tank yard address N. Adams, MA

### Approvals

City or Town Pittsfield FDID# 03236 Permit# \_\_\_\_\_  
Date of issue \_\_\_\_\_ Date of expiration \_\_\_\_\_  
Dig safe approval number: 20090802637 Dig Safe Toll Free Tst. Number: 800-322-4844  
Signature / Title of Officer granting permit: [Signature] 2/25/09

After removal(s) ("Consumptive Use" fuel oil tanks exempted) send Form FP-290R signed by Local Fire Dept. to UST Regulatory Compliance Unit, Department of Fire Services, P.O. Box 1025, State Road, Slow, MA 01775.

International Fire Code Institute

tank #1



Make application to local Fire Department.  
Fire Department retains original application and issues duplicate as Permit.

Commonwealth of Massachusetts  
Department of Fire Services - Office of the State Fire Marshal

# APPLICATION and PERMIT

UST  
Fee: 25.00

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00, application is hereby made by:

### Tank Owner

Tank Owner Name (please print) City of Pittsfield  
Address 231 Tyler Street Pittsfield MA 01201  
Street City State Zip

### Removal Contractor

Company Name Miller's Petroleum System  
Address 875 Crane Ave, Pittsfield, MA  
Signature (if applying for permit) [Signature]  
 IFCI\* Certified  Other

### Contamination Assessment

Co. or Individual Kevin Kitchin  
Address 650 Suffolk St, Lowell, MA 01854  
Signature (if applying for permit) [Signature]  
 IFCI\* Certified  LSP #  Other

### Tank Information

Tank Location 231 Tyler Street  
Tank Capacity (gallons) 1000 gallon Substance Last Stored \_\_\_\_\_  
Tank Dimensions (diameter x length) \_\_\_\_\_  
Remarks: \_\_\_\_\_

GEORGE APKIN & SONS, INC.  
P. O. BOX 509  
NORTH ADAMS, MA 01247-0509

### Disposal Information

Firm transporting waste N/A State Lic. # \_\_\_\_\_  
Hazardous waste manifest salvage E.P.A. # \_\_\_\_\_  
Approved tank disposal yard Geo Apkin + Son Tank yard # \_\_\_\_\_  
Type of inert gas nitrogen Tank yard address N. Adams, MA

### Approvals

City or Town Pittsfield FDID# 03236 Permit# \_\_\_\_\_  
Date of issue \_\_\_\_\_ Date of expiration \_\_\_\_\_  
Dig safe approval number: 20090802637 Dig Safe Toll Free Tel. Number: 800-322-4844  
Signature / Title of Officer granting permit [Signature]

After removal(s) ("Consumptive Use" fuel oil tanks exempted) send Form FP-200R signed by Local Fire Dept. to UST Regulatory Compliance Unit, Department of Fire Services, P.O. Box 1025, State Road, Stow, MA 01775.  
\*International Fire Code Institute

## **APPENDIX D**

# **SOIL AND GROUNDWATER ANALYTICAL LABORATORY DATA REPORTS**



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

REPORT DATE 3/30/2009

TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852  
 ATTN: TOM BIOLSI

CONTRACT NUMBER:  
 PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-24161  
 JOB NUMBER: 158037.0020

PROJECT LOCATION: 235 TYLER STREET, PITTSFIELD, MA.

| FIELD SAMPLE #     | LAB ID   | MATRIX | SAMPLE DESCRIPTION | TEST             | Subcontract Lab (if any) Cert. Nos. |
|--------------------|----------|--------|--------------------|------------------|-------------------------------------|
| DUP-1(1-3FT)(2FT)  | 09B08736 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| DUP-1(1-3FT)(2FT)  | 09B08736 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| DUP-1(1-3FT)(2FT)  | 09B08736 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| DUP-1(1-3FT)(2FT)  | 09B08745 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| DUP-1(1-3FT)(2FT)  | 09B08745 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-1(1-3 FT)(2FT)  | 09B08729 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-1(1-3 FT)(2FT)  | 09B08729 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-1(1-3 FT)(2FT)  | 09B08729 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-1(1-3 FT)(2FT)  | 09B08738 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| MW-1(1-3 FT)(2FT)  | 09B08738 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-1(8-10FT)(9FT)  | 09B08730 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-1(8-10FT)(9FT)  | 09B08730 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-1(8-10FT)(9FT)  | 09B08730 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-1(8-10FT)(9FT)  | 09B08739 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| MW-1(8-10FT)(9FT)  | 09B08739 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-2(1-3FT)(2FT)   | 09B08731 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-2(1-3FT)(2FT)   | 09B08731 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-2(1-3FT)(2FT)   | 09B08731 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-2(1-3FT)(2FT)   | 09B08740 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| MW-2(1-3FT)(2FT)   | 09B08740 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-2(8-10FT)(9FT)  | 09B08732 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-2(8-10FT)(9FT)  | 09B08732 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-2(8-10FT)(9FT)  | 09B08732 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-2(8-10FT)(9FT)  | 09B08741 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| MW-2(8-10FT)(9FT)  | 09B08741 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-3(1-3FT)(2FT)   | 09B08733 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-3(1-3FT)(2FT)   | 09B08733 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-3(1-3FT)(2FT)   | 09B08733 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-3(1-3FT)(2FT)   | 09B08742 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| MW-3(1-3FT)(2FT)   | 09B08742 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-3(10-12FT)(11F) | 09B08734 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-3(10-12FT)(11F) | 09B08734 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-3(10-12FT)(11F) | 09B08734 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-3(10-12FT)(11F) | 09B08743 | SOIL   | Not Specified      | 8082 drywt       |                                     |
| MW-3(10-12FT)(11F) | 09B08743 | SOIL   | Not Specified      | pb (mg/kg)dw icp |                                     |
| MW-3(16-18FT)(17F) | 09B08735 | SOIL   | Not Specified      | eph - solid 04   |                                     |
| MW-3(16-18FT)(17F) | 09B08735 | SOIL   | Not Specified      | solids eph/vph   |                                     |
| MW-3(16-18FT)(17F) | 09B08735 | SOIL   | Not Specified      | vph - solid 04   |                                     |
| MW-3(16-18FT)(17F) | 09B08744 | SOIL   | Not Specified      | 8082 drywt       |                                     |





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

REPORT DATE 3/30/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-24161

JOB NUMBER: 158037.0020

|                   |          |         |               |                  |
|-------------------|----------|---------|---------------|------------------|
| MW-3(16-18FT)(17F | 09B08744 | SOIL    | Not Specified | pb (mg/kg)dw icp |
| TRIP BLANK        | 09B08747 | LIQUIDS | Not Specified | vph - solid 04   |



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REPORT DATE 3/30/2009

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LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-24161  
JOB NUMBER: 158037.0020

Comments :

LIMS BATCH NO. : LIMIT-24161

**CASE NARRATIVE SUMMARY**

Recommended sample holding times were not exceeded for all samples unless listed below:  
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

There are no analytical issues which affect the usability of the data.

**DETAILED CASE NARRATIVE**

**METHOD SW846-6010 - ADDITIONAL DETAILS**

Either the laboratory fortified blank or duplicate recovery is outside control limits for Pb, but the other is within limits. Analysis is in control.  
Only Pb was requested and reported.

**VOLATILE PETROLEUM HYDROCARBONS (VPH) MADEP-VPH-04-1.1 ADDITIONAL DETAILS**

Target compounds are subtracted from the summed ranges, but not from the unadjusted ranges.  
C9-C12 aliphatic hydrocarbons exclude the concentration of C9-C10 aromatic hydrocarbons.  
No significant modifications were made to the method.

All VPH samples were received preserved properly (water samples pH <2; soil samples in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol) in the proper containers at 4° C. +/- 2° as specified on the chain-of-custody form unless specified below:  
All properly preserved

All VPH surrogate standard recoveries were within control limits specified by the method unless listed below:

In method VPH for sample 09B08731, the PID surrogate standard recovery for 2,5-Dibromotoluene is outside of control limits and biased on the high side. Data is not affected since all results are "not detected".

**VPH QC SURROGATE RECOVERIES**

|                        |      |               |
|------------------------|------|---------------|
| BLANK-93424            |      |               |
| 2,5-DIBROMOTOLUENE PID | 112% |               |
| BLANK-93431            |      |               |
| 2,5-DIBROMOTOLUENE FID | 102% |               |
| LFBLANK-131203         | LFB  | LFB DUPLICATE |
| 2,5-DIBROMOTOLUENE PID | 112% | 114%          |
| LFBLANK-131206         | LFB  | LFB DUPLICATE |
| 2,5-DIBROMOTOLUENE FID | 104% | 102%          |



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REPORT DATE 3/30/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMT-24161  
JOB NUMBER: 158037.0020

METHOD SW846 8082 - ADDITIONAL DETAILS

Solid samples, if any, in the batch were extracted by the following method:  
Microwave: SW-846 3546

PCB QC Surrogate recoveries

BLANK-131107

Column #1

Tetrachloro-m-xylene: 89.5%  
Decachlorobiphenyl: 94.2%

Column #2

Tetrachloro-m-xylene: 94.0%  
Decachlorobiphenyl: 94.0%

LFB LFB LFB DUPLICATE

Column #1

Tetrachloro-m-xylene: 91.2% 101%  
Decachlorobiphenyl: 91.2% 100%

Column #2

Tetrachloro-m-xylene: 96.0% 106%  
Decachlorobiphenyl: 91.0% 100%

Sample #09B08738

Confirmation column

Tetrachloro-m-xylene 80.0%  
Decachlorobiphenyl 71.8%

Sample #09B08739

Confirmation column

Tetrachloro-m-xylene 68.5%  
Decachlorobiphenyl 92.0%

Sample #09B08740

Confirmation column

Tetrachloro-m-xylene 81.8%  
Decachlorobiphenyl 78.2%

Sample #09B08741

Confirmation column

Tetrachloro-m-xylene 28.5%  
Decachlorobiphenyl 69.6%

Sample #09B08742

Confirmation column



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REPORT DATE 3/30/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-24161  
JOB NUMBER: 158037.0020

Tetrachloro-m-xylene 78.8%  
Decachlorobiphenyl 66.5%

Sample #09B08743

Confirmation column  
Tetrachloro-m-xylene 86.5%  
Decachlorobiphenyl 74.0%

Sample #09B08744

Confirmation column  
Tetrachloro-m-xylene 93.5%  
Decachlorobiphenyl 83.0%

Sample #09B08745

Confirmation column  
Tetrachloro-m-xylene 77.2%  
Decachlorobiphenyl 65.8%

**EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) MADEP-EPH-04-1.1 ADDITIONAL DETAILS**

Solid samples, if any, in the batch were extracted by the following method:  
Microwave: SW846 3546

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch.

Target compounds are subtracted from the C11-C22 aromatic range but not from the unadjusted C11-C22 aromatic range.  
No significant modifications were made to the method.

All EPH samples were analyzed undiluted unless specified below:

| Sample   | Dilution(s)     |
|----------|-----------------|
| 09B08730 | 5x              |
| 09B08733 | undilute and 4x |
| 09B08736 | undilute and 4x |

All EPH surrogate standard recoveries were within control limits specified by the method unless listed below:  
None outside of control limits

**EPH QC Surrogate Recoveries**

BLANK-131176

2-Fluorobiphenyl: 88.9%  
2-Bromonaphthalene: 92.0%  
1-Chlorooctadecane: 84.6%  
o-Terphenyl: 91.9%

LFBLANK-93402 LFB LFB Duplicate

2-Fluorobiphenyl: 97.5% 93.2%



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REPORT DATE 3/30/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMT-24161  
JOB NUMBER: 158037.0020

|                     |       |       |
|---------------------|-------|-------|
| 2-Bromonaphthalene  | 99.0% | 95.0% |
| 1-Chlorooctadecane: | 85.5% | 83.9% |
| O-Terphenyl:        | 101%  | 99.1% |

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

|                           |                                 |                                 |
|---------------------------|---------------------------------|---------------------------------|
| AIHA 100033               | AIHA ELLAP (LEAD) 100033        | NORTH CAROLINA CERT. # 652      |
| MASSACHUSETTS MA0100      | NEW HAMPSHIRE NELAP 2516        | NEW JERSEY NELAP NJ MA007 (AIR) |
| CONNECTICUT PH-0567       | VERMONT DOH (LEAD) No. LL015036 | FLORIDA DOH E871027 (AIR)       |
| NEW YORK ELAP/NELAP 10899 | RHODE ISLAND (LIC. No. 112)     |                                 |

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

M. Gude                      3/30/09  
SIGNATURE                      DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor

\* See end of data tabulation for notes and comments pertaining to this sample



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/30/2009  
 Page 1 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : DUP-1(1-3FT)(2FT)**

**Sample ID : 09B08745** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit<br>Lo Hi | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|---------------------|------|
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.113 |                     |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |                     |      |

**Field Sample # : MW-1(1-3 FT)(2FT)**

**Sample ID : 09B08738** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit<br>Lo Hi | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|---------------------|------|
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.116 |                     |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |                     |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : MW-1(8-10FT)(9FT)**

**Sample ID : 09B08739** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|------------|----|------|
|                      |              |           |               |         |       | Lo         | Hi |      |
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |            |    |      |

**Field Sample # : MW-2(1-3FT)(2FT)**

**Sample ID : 09B08740** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|------------|----|------|
|                      |              |           |               |         |       | Lo         | Hi |      |
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.118 |            |    |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |            |    |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : MW-2(8-10FT)(9FT)**

**Sample ID : 09B08741** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|------------|----|------|
|                      |              |           |               |         |       | Lo         | Hi |      |
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.106 |            |    |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |            |    |      |

**Field Sample # : MW-3(1-3FT)(2FT)**

**Sample ID : 09B08742** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|------------|----|------|
|                      |              |           |               |         |       | Lo         | Hi |      |
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.112 |            |    |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |            |    |      |

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : MW-3(10-12FT)(11FT)**

**Sample ID : 09B08743** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|------------|----|------|
|                      |              |           |               |         |       | Lo         | Hi |      |
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.110 |            |    |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |            |    |      |

**Field Sample # : MW-3(16-18FT)(17FT)**

**Sample ID : 09B08744** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                      | Units        | Results   | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|----------------------|--------------|-----------|---------------|---------|-------|------------|----|------|
|                      |              |           |               |         |       | Lo         | Hi |      |
| PCB 1016             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB-1221             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB-1232             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB-1242             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB-1248             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB-1254             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB-1260             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB 1262             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| PCB 1268             | mg/kg dry wt | ND        | 03/26/09      | JB      | 0.107 |            |    |      |
| Extraction Date PCBs |              | 3/25/2009 | 03/26/09      | JB      |       |            |    |      |

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

Analytical Method:  
SW846 8081/8082

SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546),  
CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

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NM = Not Measured

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‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.



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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: DUP-1(1-3FT)(2FT)

Sample ID: 09B08736      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 33.4 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | 179       | 03/27/09      | CJM     | 33.4 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 33.4 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 33.4 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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TOM BIOLSI  
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650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : DUP-1(1-3FT)(2FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample # : MW-1(1-3 FT)(2FT)

Sample ID : 09B08729      ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 34.5 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 34.5 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 34.5 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 34.5 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | 0.2       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | 0.2       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

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650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-1(1-3 FT)(2FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/30/2009  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-1(8-10FT)(9FT)

Sample ID: 09B08730      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL  | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|-----|------------|----|------|
|                              |              |           |               |         |     | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 165 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 165 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | 219       | 03/27/09      | CJM     | 165 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | 171       | 03/27/09      | CJM     | 165 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.6 |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.6 |            |    |      |
| Anthracene                   | mg/kg dry wt | 1.2       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | 3.7       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | 3.5       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | 5.2       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | 2.8       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | 1.9       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Chrysene                     | mg/kg dry wt | 4.1       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | 0.9       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Fluoranthene                 | mg/kg dry wt | 8.4       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.6 |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | 3.0       | 03/27/09      | CJM     | 0.6 |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.6 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.6 |            |    |      |
| Phenanthrene                 | mg/kg dry wt | 4.7       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Pyrene                       | mg/kg dry wt | 8.2       | 03/27/09      | CJM     | 0.6 |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |     |            |    |      |

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/30/2009  
Page 11 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-1(8-10FT)(9FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.





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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/30/2009  
 Page 12 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-2(1-3FT)(2FT)

Sample ID: 09B08731      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 35.3 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 35.3 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 35.3 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 35.3 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | 0.3       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | 0.3       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | 0.5       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | 0.3       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | 0.2       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | 0.4       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | 0.5       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | 0.3       | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | 0.2       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | 0.6       | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

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NM = Not Measured

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

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Page 13 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-2(1-3FT)(2FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/30/2009  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample # : MW-2(8-10FT)(9FT)

Sample ID : 09B08732      ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.3 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.3 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.3 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.3 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/30/2009  
Page 15 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-2(8-10FT)(9FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/30/2009  
 Page 16 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-3(1-3FT)(2FT)

Sample ID: 09B08733      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 33.5 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | 179       | 03/27/09      | CJM     | 33.5 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 33.5 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 33.5 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

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ND = Not Detected at or above the Reporting Limit

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\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/30/2009  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-3(1-3FT)(2FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/30/2009  
 Page 18 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-3(10-12FT)(11FT)

Sample ID: 09B08734      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 32.7 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | 45.3      | 03/27/09      | CJM     | 32.7 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 32.7 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 32.7 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/30/2009  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-3(10-12FT)(11FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.





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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-3(16-18FT)(17FT)

Sample ID: 09B08735      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.6 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.6 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.6 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/27/09      | CJM     | 31.6 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | ND        | 03/27/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 3/26/2009 | 03/27/09      | CJM     |      |            |    |      |

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TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

**Field Sample # : MW-3(16-18FT)(17FT)**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.





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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : MW-3(1-3FT)(2FT)**

**Sample ID : 09B08742** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|      | Units        | Results | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------|--------------|---------|---------------|---------|------|------------|----|------|
|      |              |         |               |         |      | Lo         | Hi |      |
| Lead | mg/kg dry wt | 296     | 03/27/09      | KSH     | 0.84 |            |    |      |

**Field Sample # : MW-3(10-12FT)(11FT)**

**Sample ID : 09B08743** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|      | Units        | Results | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------|--------------|---------|---------------|---------|------|------------|----|------|
|      |              |         |               |         |      | Lo         | Hi |      |
| Lead | mg/kg dry wt | 146     | 03/27/09      | KSH     | 0.83 |            |    |      |

**Field Sample # : MW-3(16-18FT)(17FT)**

**Sample ID : 09B08744** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|      | Units        | Results | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------|--------------|---------|---------------|---------|------|------------|----|------|
|      |              |         |               |         |      | Lo         | Hi |      |
| Lead | mg/kg dry wt | 9.69    | 03/27/09      | KSH     | 0.81 |            |    |      |

Analytical Method:  
 SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
 INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : DUP-1(1-3FT)(2FT)**

**Sample ID : 09B08736** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 89.0    | 03/26/09      | FD      |    |                     |      |

**Field Sample # : MW-1(1-3 FT)(2FT)**

**Sample ID : 09B08729** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 86.7    | 03/26/09      | FD      |    |                     |      |

**Field Sample # : MW-1(8-10FT)(9FT)**

**Sample ID : 09B08730** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 91.0    | 03/26/09      | FD      |    |                     |      |

**Field Sample # : MW-2(1-3FT)(2FT)**

**Sample ID : 09B08731** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 85.0    | 03/26/09      | FD      |    |                     |      |

**Field Sample # : MW-2(8-10FT)(9FT)**

**Sample ID : 09B08732** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 95.1    | 03/26/09      | FD      |    |                     |      |

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

**Field Sample # : MW-3(1-3FT)(2FT)**

**Sample ID : 09B08733** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 89.6    | 03/26/09      | FD      |    |                     |      |

**Field Sample # : MW-3(10-12FT)(11FT)**

**Sample ID : 09B08734** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 91.4    | 03/26/09      | FD      |    |                     |      |

**Field Sample # : MW-3(16-18FT)(17FT)**

**Sample ID : 09B08735** ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|               | Units | Results | Date Analyzed | Analyst | RL | SPEC Limit<br>Lo Hi | P/ F |
|---------------|-------|---------|---------------|---------|----|---------------------|------|
| Solids, total | %     | 93.7    | 03/26/09      | FD      |    |                     |      |

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: DUP-1(1-3FT)(2FT)

Sample ID: 09B08736      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 19.2  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 19.2  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.8  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.8  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.8  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.064 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.064 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.064 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.639 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.064 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.128 |            |    |      |
| o-Xylene                     | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.064 |            |    |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample # : MW-1(1-3 FT)(2FT)

Sample ID : 09B08729      ‡Sampled : 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 19.3  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 19.3  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.9  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.9  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.9  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.065 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.065 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.065 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.641 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.065 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | 0.204   | 03/25/09      | JAM     | 0.129 |            |    |      |
| o-Xylene                     | mg/kg dry wt | 0.087   | 03/25/09      | JAM     | 0.065 |            |    |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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TOM BIOLSI  
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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-2(1-3FT)(2FT)

Sample ID: 09B08731      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 21.1  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 21.1  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 14.1  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 14.1  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 14.1  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.071 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.071 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.071 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.701 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.071 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.141 |            |    |      |
| o-Xylene                     | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.071 |            |    |      |

Analytical Method:  
 MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-3(1-3FT)(2FT)

Sample ID: 09B08733      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 18.4  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 18.4  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.3  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.3  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 12.3  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.062 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.062 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.062 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.614 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.062 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.123 |            |    |      |
| o-Xylene                     | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.062 |            |    |      |

Analytical Method:  
 MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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 Page 32 of 35

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-3(10-12FT)(11FT)

Sample ID: 09B08734      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 20.1  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 20.1  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 13.4  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 13.4  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 13.4  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.067 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.067 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.067 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.668 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.067 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.134 |            |    |      |
| o-Xylene                     | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.067 |            |    |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: MW-3(16-18FT)(17FT)

Sample ID: 09B08735      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 15.3  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 15.3  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 10.2  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 10.2  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 10.2  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.051 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.051 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.051 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.509 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.051 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.102 |            |    |      |
| o-Xylene                     | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.051 |            |    |      |

Analytical Method:  
 MADEP-VPH-04-1.1

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 3/23/2009

LIMS-BAT #: LIMIT-24161  
 Job Number: 158037.0020

Field Sample #: **TRIP BLANK**

Sample ID: **09B08747**      ‡Sampled: 3/23/2009  
 Not Specified

Sample Matrix: LIQUIDS

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit<br>Lo      Hi | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|--------------------------|------|
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 16.0  |                          |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 16.0  |                          |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 03/25/09      | JAM     | 10.7  |                          |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 03/25/09      | JAM     | 10.7  |                          |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 03/25/09      | JAM     | 10.7  |                          |      |
| Benzene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.054 |                          |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.054 |                          |      |
| MTBE                         | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.054 |                          |      |
| Naphthalene                  | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.532 |                          |      |
| Toluene                      | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.054 |                          |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.107 |                          |      |
| o-Xylene                     | mg/kg dry wt | ND      | 03/25/09      | JAM     | 0.054 |                          |      |

Analytical Method:  
 MADEP-VPH-04-1.1

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 3/23/2009

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LIMS-BAT #: LIMIT-24161  
Job Number: 158037.0020

\*\* END OF REPORT \*\*

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

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/ECD-12235

| Sample Id     | Analysis             | QC Analysis          | Values | Units        | Limits |
|---------------|----------------------|----------------------|--------|--------------|--------|
| 09B08738      | Decachlorobiphenyl   | Surrogate Recovery   | 71.6   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 80.6   | %            | 30-150 |
| 09B08739      | Decachlorobiphenyl   | Surrogate Recovery   | 109.7  | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 69.5   | %            | 30-150 |
| 09B08740      | Decachlorobiphenyl   | Surrogate Recovery   | 78.3   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 80.3   | %            | 30-150 |
| 09B08741      | Decachlorobiphenyl   | Surrogate Recovery   | 69.4   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 36.2   | %            | 30-150 |
| 09B08742      | Decachlorobiphenyl   | Surrogate Recovery   | 67.3   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 77.5   | %            | 30-150 |
| 09B08743      | Decachlorobiphenyl   | Surrogate Recovery   | 74.7   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 82.3   | %            | 30-150 |
| 09B08744      | Decachlorobiphenyl   | Surrogate Recovery   | 82.5   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 92.5   | %            | 30-150 |
| 09B08745      | Decachlorobiphenyl   | Surrogate Recovery   | 65.0   | %            | 30-150 |
|               | Tetrachloro-m-Xylene | Surrogate Recovery   | 75.0   | %            | 30-150 |
| BLANK-131107  | PCB-1232             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB-1242             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB-1254             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB-1260             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB-1248             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB-1221             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB 1016             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB 1262             | Blank                | <0.100 | mg/kg dry wt |        |
|               | PCB 1268             | Blank                | <0.100 | mg/kg dry wt |        |
| LFBLANK-93332 | PCB-1260             | Lab Fort Blank Amt.  | 0.200  | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. Found  | 0.158  | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. % Rec. | 79.172 | %            | 40-140 |
|               |                      | Dup Lab Fort Bl Amt. | 0.200  | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl. Fnd | 0.181  | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl %Rec | 90.517 | %            |        |
|               |                      | Lab Fort Blank Range | 11.345 | units        |        |
|               |                      | Lab Fort Bl. Av. Rec | 84.845 | %            |        |
|               |                      | LFB Duplicate RPD    | 13.371 | %            | 0-30   |



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

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/ECD-12235

| Sample Id     | Analysis | QC Analysis          | Values | Units        | Limits |
|---------------|----------|----------------------|--------|--------------|--------|
| LFBLANK-93332 | PCB 1016 | Lab Fort Blank Amt.  | 0.200  | mg/kg dry wt |        |
|               |          | Lab Fort Blk. Found  | 0.171  | mg/kg dry wt |        |
|               |          | Lab Fort Blk. % Rec. | 85.765 | %            | 40-140 |
|               |          | Dup Lab Fort Bl Amt. | 0.200  | mg/kg dry wt |        |
|               |          | Dup Lab Fort Bl. Fnd | 0.196  | mg/kg dry wt |        |
|               |          | Dup Lab Fort Bl %Rec | 98.377 | %            |        |
|               |          | Lab Fort Blank Range | 12.612 | units        |        |
|               |          | Lab Fort Bl. Av. Rec | 92.071 | %            |        |
|               |          | LFB Duplicate RPD    | 13.698 | %            | 0-30   |

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/FID-23339

| Sample Id    | Analysis           | QC Analysis        | Values | Units        | Limits |
|--------------|--------------------|--------------------|--------|--------------|--------|
| 09B08729     | 2-Fluorobiphenyl   | Surrogate Recovery | 92.3   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 93.6   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 64.6   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 70.8   | %            | 40-140 |
| 09B08730     | 2-Fluorobiphenyl   | Surrogate Recovery | 88.1   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 88.9   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 77.2   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 90.4   | %            | 40-140 |
| 09B08731     | 2-Fluorobiphenyl   | Surrogate Recovery | 94.7   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 94.9   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 64.6   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 73.2   | %            | 40-140 |
| 09B08732     | 2-Fluorobiphenyl   | Surrogate Recovery | 89.7   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 92.0   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 71.3   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 78.0   | %            | 40-140 |
| 09B08733     | 2-Fluorobiphenyl   | Surrogate Recovery | 88.7   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 90.5   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 75.0   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 82.6   | %            | 40-140 |
| 09B08734     | 2-Fluorobiphenyl   | Surrogate Recovery | 93.5   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 94.9   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 69.6   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 84.6   | %            | 40-140 |
| 09B08735     | 2-Fluorobiphenyl   | Surrogate Recovery | 94.5   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 95.3   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 72.8   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 80.7   | %            | 40-140 |
| 09B08736     | 2-Fluorobiphenyl   | Surrogate Recovery | 90.7   | %            | 40-140 |
|              | 2-Bromonaphthalene | Surrogate Recovery | 92.0   | %            | 40-140 |
|              | Chlorooctadecane   | Sur. Recovery      | 73.0   | %            | 40-140 |
|              | Terphenyl          | Sur. Recovery      | 82.4   | %            | 40-140 |
| BLANK-131176 | Naphthalene        | Blank              | <0.2   | mg/kg dry wt |        |
|              | Acenaphthene       | Blank              | <0.2   | mg/kg dry wt |        |
|              | Acenaphthylene     | Blank              | <0.2   | mg/kg dry wt |        |

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/FID-23339

| Sample Id     | Analysis                               | QC Analysis          | Values | Units        | Limits |
|---------------|--|----------------------|--------|--------------|--------|
| BLANK-131176  |  |                      |        |              |        |
|               | Anthracene                             | Blank                | <0.2   | mg/kg dry wt |        |
|               | Benzo(a)anthracene                     | Blank                | <0.2   | mg/kg dry wt |        |
|               | Benzo(a)pyrene                         | Blank                | <0.2   | mg/kg dry wt |        |
|               | Benzo(b)fluoranthene                   | Blank                | <0.2   | mg/kg dry wt |        |
|               | Benzo(g,h,i)perylene                   | Blank                | <0.2   | mg/kg dry wt |        |
|               | Chrysene                               | Blank                | <0.2   | mg/kg dry wt |        |
|               | Dibenzo(a,h)anthracene                 | Blank                | <0.2   | mg/kg dry wt |        |
|               | Fluoranthene                           | Blank                | <0.2   | mg/kg dry wt |        |
|               | Fluorene                               | Blank                | <0.2   | mg/kg dry wt |        |
|               | Indeno(1,2,3-cd)pyrene                 | Blank                | <0.2   | mg/kg dry wt |        |
|               | 2-Methylnaphthalene                    | Blank                | <0.2   | mg/kg dry wt |        |
|               | Phenanthrene                           | Blank                | <0.2   | mg/kg dry wt |        |
|               | Pyrene                                 | Blank                | <0.2   | mg/kg dry wt |        |
|               | Benzo(k)fluoranthene                   | Blank                | <0.2   | mg/kg dry wt |        |
|               | n-Nonane                               | Blank                | <0.2   | mg/kg dry wt |        |
|               | Naphthalene Aliphatic Fraction         | Blank                | <0.2   | mg/kg dry wt |        |
|               | 2-Methylnaphthalene Aliphatic Fraction | Blank                | <0.2   | mg/kg dry wt |        |
|               | Unadjusted C11-C22 Aromatics           | Blank                | <30.1  | mg/kg dry wt |        |
|               | C9-C18 Aliphatics                      | Blank                | <30.1  | mg/kg dry wt |        |
|               | C19-C36 Aliphatics                     | Blank                | <30.1  | mg/kg dry wt |        |
|               | C11-C22 Aromatics                      | Blank                | <30.1  | mg/kg dry wt |        |
| LFBLANK-93402 |  |                      |        |              |        |
|               | Naphthalene                            | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 4.1    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 82.3   | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 4.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 81.8   | %            | 40-140 |
|               |  | Lab Fort Blank Range | 0.4    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 82.0   | %            |        |
|               |  | LFB Duplicate RPD    | 0.6    | %            | 0-25   |
|               |  | LFB Duplicate RPD    | 0.6    | %            | 0-25   |
|               | Acenaphthene                           | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 4.8    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 96.1   | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 4.7    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 94.3   | %            | 40-140 |
|               |  | Lab Fort Blank Range | 1.7    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 95.2   | %            |        |
|               |  | LFB Duplicate RPD    | 1.8    | %            | 0-25   |
|               |  | LFB Duplicate RPD    | 1.8    | %            | 0-25   |
|               | Acenaphthylene                         | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 4.8    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 97.5   | %            | 40-140 |



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| Sample Id     | Analysis             | QC Analysis          | Values | Units        | Limits |
|---------------|----------------------|----------------------|--------|--------------|--------|
| LFBLANK-93402 | Acenaphthylene       | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl. Fnd | 4.7    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl %Rec | 95.7   | %            | 40-140 |
|               |                      | Lab Fort Blank Range | 1.7    | units        |        |
|               |                      | Lab Fort Bl. Av. Rec | 96.6   | %            |        |
|               |                      | LFB Duplicate RPD    | 1.8    | %            | 0-25   |
|               | Anthracene           | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. Found  | 5.0    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. % Rec. | 101.4  | %            | 40-140 |
|               |                      | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl. Fnd | 4.9    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl %Rec | 99.1   | %            | 40-140 |
|               |                      | Lab Fort Blank Range | 2.2    | units        |        |
|               |                      | Lab Fort Bl. Av. Rec | 100.2  | %            |        |
|               |                      | LFB Duplicate RPD    | 2.2    | %            | 0-25   |
|               | Benzo(a)anthracene   | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. % Rec. | 94.3   | %            | 40-140 |
|               |                      | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl. Fnd | 4.5    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl %Rec | 91.8   | %            | 40-140 |
|               |                      | Lab Fort Blank Range | 2.5    | units        |        |
|               |                      | Lab Fort Bl. Av. Rec | 93.0   | %            |        |
|               |                      | LFB Duplicate RPD    | 2.6    | %            | 0-25   |
|               | Benzo(a)pyrene       | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. % Rec. | 95.4   | %            | 40-140 |
|               |                      | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl. Fnd | 4.6    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl %Rec | 93.3   | %            | 40-140 |
|               |                      | Lab Fort Blank Range | 2.0    | units        |        |
|               |                      | Lab Fort Bl. Av. Rec | 94.3   | %            |        |
|               |                      | LFB Duplicate RPD    | 2.2    | %            | 0-25   |
|               | Benzo(b)fluoranthene | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. Found  | 5.0    | mg/kg dry wt |        |
|               |                      | Lab Fort Blk. % Rec. | 100.2  | %            | 40-140 |
|               |                      | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl. Fnd | 4.8    | mg/kg dry wt |        |
|               |                      | Dup Lab Fort Bl %Rec | 97.8   | %            | 40-140 |
|               |                      | Lab Fort Blank Range | 2.4    | units        |        |
|               |                      | Lab Fort Bl. Av. Rec | 99.0   | %            |        |
|               |                      | LFB Duplicate RPD    | 2.5    | %            | 0-25   |
|               | Benzo(g,h,i)perylene | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |

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|----------------------|------------------------|----------------------|---------------------|--------------|--------------|
| LFBLANK-93402        | Benzo(g,h,i)perylene   | Lab Fort Blk. Found  | 4.8                 | mg/kg dry wt |              |
|                      |                        | Lab Fort Blk. % Rec. | 97.3                | %            | 40-140       |
|                      |                        | Dup Lab Fort Bl Amt. | 5.0                 | mg/kg dry wt |              |
|                      |                        | Dup Lab Fort Bl. Fnd | 4.7                 | mg/kg dry wt |              |
|                      |                        | Dup Lab Fort Bl %Rec | 94.9                | %            | 40-140       |
|                      |                        | Lab Fort Blank Range | 2.3                 | units        |              |
|                      |                        | Lab Fort Bl. Av. Rec | 96.1                | %            |              |
|                      |                        | LFB Duplicate RPD    | 2.4                 | %            | 0-25         |
|                      |                        | Chrysene             | Lab Fort Blank Amt. | 5.0          | mg/kg dry wt |
|                      | Lab Fort Blk. Found    |                      | 5.0                 | mg/kg dry wt |              |
|                      | Lab Fort Blk. % Rec.   |                      | 100.1               | %            | 40-140       |
|                      | Dup Lab Fort Bl Amt.   |                      | 5.0                 | mg/kg dry wt |              |
|                      | Dup Lab Fort Bl. Fnd   |                      | 4.8                 | mg/kg dry wt |              |
|                      | Dup Lab Fort Bl %Rec   |                      | 97.3                | %            | 40-140       |
|                      | Lab Fort Blank Range   |                      | 2.8                 | units        |              |
|                      | Lab Fort Bl. Av. Rec   |                      | 98.7                | %            |              |
|                      | LFB Duplicate RPD      |                      | 2.8                 | %            | 0-25         |
|                      | Dibenzo(a,h)anthracene | Lab Fort Blank Amt.  | 5.0                 | mg/kg dry wt |              |
|                      |                        | Lab Fort Blk. Found  | 4.8                 | mg/kg dry wt |              |
|                      |                        | Lab Fort Blk. % Rec. | 97.2                | %            | 40-140       |
|                      |                        | Dup Lab Fort Bl Amt. | 5.0                 | mg/kg dry wt |              |
|                      |                        | Dup Lab Fort Bl. Fnd | 4.7                 | mg/kg dry wt |              |
|                      |                        | Dup Lab Fort Bl %Rec | 95.2                | %            | 40-140       |
|                      |                        | Lab Fort Blank Range | 2.0                 | units        |              |
|                      |                        | Lab Fort Bl. Av. Rec | 96.2                | %            |              |
|                      |                        | LFB Duplicate RPD    | 2.0                 | %            | 0-25         |
|                      | Fluoranthene           | Lab Fort Blank Amt.  | 5.0                 | mg/kg dry wt |              |
|                      |                        | Lab Fort Blk. Found  | 4.8                 | mg/kg dry wt |              |
|                      |                        | Lab Fort Blk. % Rec. | 97.5                | %            | 40-140       |
|                      |                        | Dup Lab Fort Bl Amt. | 5.0                 | mg/kg dry wt |              |
|                      |                        | Dup Lab Fort Bl. Fnd | 4.7                 | mg/kg dry wt |              |
|                      |                        | Dup Lab Fort Bl %Rec | 94.9                | %            | 40-140       |
|                      |                        | Lab Fort Blank Range | 2.6                 | units        |              |
|                      |                        | Lab Fort Bl. Av. Rec | 96.2                | %            |              |
|                      |                        | LFB Duplicate RPD    | 2.7                 | %            | 0-25         |
|                      | Fluorene               | Lab Fort Blank Amt.  | 5.0                 | mg/kg dry wt |              |
| Lab Fort Blk. Found  |                        | 4.9                  | mg/kg dry wt        |              |              |
| Lab Fort Blk. % Rec. |                        | 98.9                 | %                   | 40-140       |              |
| Dup Lab Fort Bl Amt. |                        | 5.0                  | mg/kg dry wt        |              |              |
| Dup Lab Fort Bl. Fnd |                        | 4.8                  | mg/kg dry wt        |              |              |
| Dup Lab Fort Bl %Rec |                        | 96.8                 | %                   | 40-140       |              |
| Lab Fort Blank Range |                        | 2.0                  | units               |              |              |
| Lab Fort Bl. Av. Rec |                        | 97.8                 | %                   |              |              |

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| Sample Id     | Analysis               | QC Analysis          | Values | Units        | Limits |
|---------------|------------------------|----------------------|--------|--------------|--------|
| LFBLANK-93402 |                        |                      |        |              |        |
|               | Fluorene               | LFB Duplicate RPD    | 2.0    | %            | 0-25   |
|               | Indeno(1,2,3-cd)pyrene | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 95.6   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.6    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 93.5   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 2.1    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 94.6   | %            |        |
|               | 2-Methylnaphthalene    | LFB Duplicate RPD    | 2.2    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.5    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 90.7   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.7   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 0.9    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 90.2   | %            |        |
|               | Phenanthrene           | LFB Duplicate RPD    | 1.0    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.8    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 97.1   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.7    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 95.1   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 2.0    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 96.1   | %            |        |
|               | Pyrene                 | LFB Duplicate RPD    | 2.1    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 100.9  | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.9    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 98.6   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 2.3    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 99.7   | %            |        |
|               | Benzo(k)fluoranthene   | LFB Duplicate RPD    | 2.3    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.8    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 97.8   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.7    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 95.5   | %            | 40-140 |



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| Sample Id     | Analysis                               | QC Analysis          | Values | Units        | Limits |
|---------------|--|----------------------|--------|--------------|--------|
| LFBLANK-93402 |  |                      |        |              |        |
|               | Benzo(k)fluoranthene                   | Lab Fort Blank Range | 2.2    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 96.6   | %            |        |
|               |  | LFB Duplicate RPD    | 2.2    | %            | 0-25   |
|               | n-Nonane                               | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 2.3    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 46.5   | %            | 30-140 |
|               |  | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 2.6    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 53.0   | %            | 30-140 |
|               |  | Lab Fort Blank Range | 6.5    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 49.8   | %            |        |
|               |  | LFB Duplicate RPD    | 13.0   | %            |        |
|               | Naphthalene Aliphatic Fraction         | Lab Fort Blank Amt.  | 4.1    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 0.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 0.0    | %            | 0-5    |
|               |  | Dup Lab Fort Bl Amt. | 4.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 0.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 0.0    | %            | 0-5    |
|               |  | Lab Fort Blank Range | 0.0    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 0.0    | %            |        |
|               | 2-Methylnaphthalene Aliphatic Fraction | Lab Fort Blank Amt.  | 4.5    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 0.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 0.0    | %            | 0-5    |
|               |  | Dup Lab Fort Bl Amt. | 4.4    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 0.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 0.0    | %            | 0-5    |
|               |  | Lab Fort Blank Range | 0.0    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 0.0    | %            |        |
|               | Unadjusted C11-C22 Aromatics           | Lab Fort Blank Amt.  | 85.0   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 85.6   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 100.7  | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 85.0   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 84.1   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 98.9   | %            | 40-140 |
|               |  | Lab Fort Blank Range | 1.7    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 99.8   | %            |        |
|               |  | LFB Duplicate RPD    | 1.7    | %            | 0-25   |
|               | C9-C18 Aliphatics                      | Lab Fort Blank Amt.  | 30.0   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 25.9   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 86.5   | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 30.0   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 27.9   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 93.2   | %            | 40-140 |





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|---------------|--------------------|----------------------|--------|--------------|--------|
| LFBLANK-93402 | C9-C18 Aliphatics  | Lab Fort Blank Range | 6.7    | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 89.9   | %            |        |
|               |                    | LFB Duplicate RPD    | 7.4    | %            | 0-25   |
|               | C19-C36 Aliphatics | Lab Fort Blank Amt.  | 40.0   | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 42.3   | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 105.8  | %            | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 40.0   | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 42.9   | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 107.3  | %            | 40-140 |
|               |                    | Lab Fort Blank Range | 1.4    | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 106.6  | %            |        |
|               |                    | LFB Duplicate RPD    | 1.4    | %            | 0-25   |



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| Sample Id     | Analysis                     | QC Analysis          | Values | Units        | Limits |
|---------------|------------------------------|----------------------|--------|--------------|--------|
| 09B08729      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 111.2  | %            |        |
| 09B08730      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 112.7  | %            |        |
| 09B08731      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 116.3  | %            |        |
| 09B08732      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 107.5  | %            |        |
| 09B08733      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 110.5  | %            |        |
| 09B08734      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 99.9   | %            |        |
| 09B08735      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 101.8  | %            |        |
| 09B08736      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 98.7   | %            |        |
| 09B08747      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 102.6  | %            |        |
| BLANK-131206  | C5-C8 Aliphatics             | Blank                | <16.0  | mg/kg dry wt |        |
|               | C9-C12 Aliphatics            | Blank                | <10.7  | mg/kg dry wt |        |
|               | Unadjusted C5-C8 Aliphatics  | Blank                | <16.0  | mg/kg dry wt |        |
|               | Unadjusted C9-C12 Aliphatics | Blank                | <10.7  | mg/kg dry wt |        |
| LFBLANK-93431 | Nonane                       | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.852  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 87.288 | %            | 30-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.795  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 86.440 | %            | 30-130 |
|               |                              | Lab Fort Blank Range | 0.847  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 86.864 | %            |        |
|               |                              | LFB Duplicate RPD    | 0.975  | %            | 0-25   |
|               | Pentane                      | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.681  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 84.745 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.994  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 89.406 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 4.661  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 87.076 | %            |        |
|               |                              | LFB Duplicate RPD    | 5.352  | %            | 0-25   |
|               | 2-Methylpentane              | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.795  | mg/kg dry wt |        |

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

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QC Batch Number: GC/FID-23342

| Sample Id     | Analysis               | QC Analysis          | Values | Units        | Limits |
|---------------|------------------------|----------------------|--------|--------------|--------|
| LFBLANK-93431 | 2-Methylpentane        | Lab Fort Blk. % Rec. | 86.440 | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.136  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 91.525 | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 5.084  | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 88.983 | %            |        |
|               |                        | LFB Duplicate RPD    | 5.714  | %            | 0-25   |
|               | 2,2,4-Trimethylpentane | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 5.642  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 84.152 | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 5.965  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 88.983 | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 4.830  | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 86.567 | %            |        |
|               |                        | LFB Duplicate RPD    | 5.580  | %            | 0-25   |
|               | n-Decane               | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 6.306  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 94.067 | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.306  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 94.067 | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 0.000  | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 94.067 | %            |        |
|               |                        | LFB Duplicate RPD    | 0.000  | %            | 0-25   |
|               | n-Butylcyclohexane     | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 5.593  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 83.432 | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 5.663  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 84.466 | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 1.033  | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 83.949 | %            |        |
|               |                        | LFB Duplicate RPD    | 1.231  | %            | 0-25   |



**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/PID-9165

| Sample Id     | Analysis                 | QC Analysis          | Values  | Units        | Limits |
|---------------|--------------------------|----------------------|---------|--------------|--------|
| 09B08729      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 123.7   | %            | 70-130 |
| 09B08730      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 125.4   | %            | 70-130 |
| 09B08731      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 133.9   | %            | 70-130 |
| 09B08732      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 122.0   | %            | 70-130 |
| 09B08733      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 125.1   | %            | 70-130 |
| 09B08734      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 115.7   | %            | 70-130 |
| 09B08735      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 118.3   | %            | 70-130 |
| 09B08736      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 118.4   | %            | 70-130 |
| 09B08747      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 118.3   | %            | 70-130 |
| BLANK-131203  | Benzene                  | Blank                | <0.054  | mg/kg dry wt |        |
|               | Ethylbenzene             | Blank                | <0.054  | mg/kg dry wt |        |
|               | Naphthalene              | Blank                | <0.532  | mg/kg dry wt |        |
|               | Toluene                  | Blank                | <0.054  | mg/kg dry wt |        |
|               | o-Xylene                 | Blank                | <0.054  | mg/kg dry wt |        |
|               | m/p-Xylene               | Blank                | <0.107  | mg/kg dry wt |        |
|               | C9-C10 Aromatics         | Blank                | <10.7   | mg/kg dry wt |        |
|               | MTBE                     | Blank                | <0.054  | mg/kg dry wt |        |
| LFBLANK-93424 | Benzene                  | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 7.375   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 110.000 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 7.500   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 111.864 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 1.864   | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 110.932 | %            |        |
|               |                          | LFB Duplicate RPD    | 1.680   | %            | 0-25   |
|               | Ethylbenzene             | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.736   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 100.483 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 6.761   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 100.847 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 0.364   | units        |        |



**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/PID-9165

| Sample Id     | Analysis     | QC Analysis          | Values  | Units        | Limits |
|---------------|--------------|----------------------|---------|--------------|--------|
| LFBLANK-93424 | Ethylbenzene | Lab Fort Bl. Av. Rec | 100.665 | %            |        |
|               |              | LFB Duplicate RPD    | 0.361   | %            | 0-25   |
|               | Naphthalene  | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. Found  | 6.215   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. % Rec. | 92.711  | %            | 70-130 |
|               |              | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl. Fnd | 6.000   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl %Rec | 89.491  | %            | 70-130 |
|               |              | Lab Fort Blank Range | 3.220   | units        |        |
|               |              | Lab Fort Bl. Av. Rec | 91.101  | %            |        |
|               |              | LFB Duplicate RPD    | 3.534   | %            | 0-25   |
|               | Toluene      | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. Found  | 7.210   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. % Rec. | 107.542 | %            | 70-130 |
|               |              | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl. Fnd | 7.301   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl %Rec | 108.898 | %            | 70-130 |
|               |              | Lab Fort Blank Range | 1.355   | units        |        |
|               |              | Lab Fort Bl. Av. Rec | 108.220 | %            |        |
|               |              | LFB Duplicate RPD    | 1.252   | %            | 0-25   |
|               | o-Xylene     | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. Found  | 7.039   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. % Rec. | 105.000 | %            | 70-130 |
|               |              | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl. Fnd | 7.045   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl %Rec | 105.084 | %            | 70-130 |
|               |              | Lab Fort Blank Range | 0.084   | units        |        |
|               |              | Lab Fort Bl. Av. Rec | 105.042 | %            |        |
|               |              | LFB Duplicate RPD    | 0.080   | %            | 0-25   |
|               | m/p-Xylene   | Lab Fort Blank Amt.  | 13.409  | mg/kg dry wt |        |
|               |              | Lab Fort Blk. Found  | 13.505  | mg/kg dry wt |        |
|               |              | Lab Fort Blk. % Rec. | 100.720 | %            | 70-130 |
|               |              | Dup Lab Fort Bl Amt. | 13.409  | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl. Fnd | 13.522  | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl %Rec | 100.847 | %            | 70-130 |
|               |              | Lab Fort Blank Range | 0.127   | units        |        |
|               |              | Lab Fort Bl. Av. Rec | 100.783 | %            |        |
|               |              | LFB Duplicate RPD    | 0.126   | %            | 0-25   |
|               | MTBE         | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. Found  | 6.875   | mg/kg dry wt |        |
|               |              | Lab Fort Blk. % Rec. | 102.542 | %            | 70-130 |
|               |              | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |              | Dup Lab Fort Bl. Fnd | 6.963   | mg/kg dry wt |        |



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**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/30/2009

Lims Bat # : LIMIT-24161

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QC Batch Number: GC/PID-9165

| Sample Id     | Analysis               | QC Analysis          | Values  | Units        | Limits |
|---------------|------------------------|----------------------|---------|--------------|--------|
| LFBLANK-93424 | MTBE                   | Dup Lab Fort Bl %Rec | 103.864 | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 1.322   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 103.203 | %            |        |
|               |                        | LFB Duplicate RPD    | 1.280   | %            | 0-25   |
|               | 1,2,4-TrimethylBenzene | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 6.511   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 97.118  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.590   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 98.305  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 1.186   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 97.711  | %            |        |
|               |                        | LFB Duplicate RPD    | 1.214   | %            | 0-25   |



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**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

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Lims Bat # : LIMIT-24161

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QC Batch Number: ICP-21466

| Sample Id     | Analysis | QC Analysis          | Values | Units        | Limits |
|---------------|----------|----------------------|--------|--------------|--------|
| BLANK-131158  | Lead     | Blank                | <0.75  | mg/kg dry wt |        |
| LFBLANK-93379 | Lead     | Lab Fort Blank Amt.  | 136.00 | mg/kg dry wt |        |
|               |          | Lab Fort Blk. Found  | 108.63 | mg/kg dry wt |        |
|               |          | Lab Fort Blk. % Rec. | 79.87  | %            | 81-120 |
|               |          | Dup Lab Fort Bl Amt. | 136.00 | mg/kg dry wt |        |
|               |          | Dup Lab Fort Bl. Fnd | 110.90 | mg/kg dry wt |        |
|               |          | Dup Lab Fort Bl %Rec | 81.54  | %            | 81-120 |
|               |          | Lab Fort Blank Range | 1.66   | units        |        |
|               |          | Lab Fort Bl. Av. Rec | 80.70  | %            |        |
|               |          | LFB Duplicate RPD    | 2.06   | %            | 0-30   |



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates                      BATCH QC: Lab fortified Blanks and Duplicates  
Sample Matrix Spikes and Matrix Spike Duplicates                      Standard Reference Materials and Duplicates  
Method Blanks

Report Date: 3/30/2009                      Lims Bat #: LIMIT-24161                      Page 16 of 16

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER                      This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS                      Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount                      Amount of analyte found in a sample.

Blank                      Method Blank that has been taken though all the steps of the analysis.

LFBLANK                      Laboratory Fortified Blank (a control sample)

STDADD                      Standard Added (a laboratory control sample)

Matrix Spk Amt Added                      Amount of analyte spiked into a sample  
MS Amt Measured                      Amount of analyte found including amount that was spiked  
Matrix Spike % Rec.                      % Recovery of spiked amount in sample.

Duplicate Value                      The result from the Duplicate analysis of the sample.  
Duplicate RPD                      The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery                      The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD)                      Surrogate Recovery on the Electrolytic Conductivity Detector.  
Sur. Recovery (PID)                      Surrogate Recovery on the Photoionization Detector.

Standard Measured                      Amount measured for a laboratory control sample  
Standard Amt Added                      Known value for a laboratory control sample  
Standard % Recovery                      % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt                      Laboratory Fortified Blank Amount Added  
Lab Fort Blk. Found                      Laboratory Fortified Blank Amount Found  
Lab Fort Blk % Rec                      Laboratory Fortified Blank % Recovered  
Dup Lab Fort Bl Amt                      Duplicate Laboratory Fortified Blank Amount Added  
Dup Lab Fort Bl Fnd                      Duplicate Laboratory Fortified Blank Amount Found  
Dup Lab Fort Bl % Rec                      Duplicate Laboratory Fortified Blank % Recovery  
Lab Fort Blank Range                      Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec.                      Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt                      Sample Value for Duplicate used with Matrix Spike Duplicate  
MSD Amount Added                      Matrix Spike Duplicate Amount Added (Spiked)  
MSD Amt Measured                      Matrix Spike Duplicate Amount Measured  
MSD % Recovery                      Matrix Spike Duplicate % Recovery  
MSD Range                      Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



**MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM**

|   |                              |
|---|------------------------------|
| Laboratory Name: <b>CON-TEST Analytical Laboratory</b>    | Project #: <b>L1MT-24161</b> |
| Project Location: <b>235 Tyler Street, Pittsfield, MA</b> | MADEP RTN <sup>1</sup> :     |

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

**09B08729- 09B08747**

Sample Matrices:    Groundwater    Soil/Sediment    Drinking Water    Other: \_\_\_\_\_

|   |  |           |   |   |                        |
|---|--|-----------|---|---|------------------------|
| <b>MCP SW-846 Methods Used</b>  | 8260B ( )                                | 8151A ( ) | 8330 ( )                                | 6010B <input checked="" type="checkbox"/> | 7470A/1A ( )           |
|   | 8270C ( )                                | 8081A ( ) | VPH <input checked="" type="checkbox"/> | 6020 ( )                                  | 9014M <sup>2</sup> ( ) |
| As specified in MADEP Compendium of Analytical Methods.<br>(check all that apply)   | 8082 <input checked="" type="checkbox"/> | 8021B ( ) | EPH <input checked="" type="checkbox"/> | 7000 S <sup>3</sup> ( )                   | 7196A ( )              |
| <small>1 List Release Tracking Number (RTN), if known<br/>                 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method<br/>                 3 S – SW-846 Methods 7000 Series List individual method and analyte.</small> |  |           |   |   |                        |

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

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

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

|          |  |  |
|----------|--|--|
| <b>E</b> | Were all analytical QC performance standards and recommendations for the specified methods achieved? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup> |
| <b>F</b> | Were results for all analyte-list compounds/elements for the specified method(s) reported?           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup> |

<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

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

|                                    |   |
|------------------------------------|---|
| Signature: <u>Michael Erickson</u> | Position: Assistant Laboratory Director |
| Printed Name: Michael Erickson     | Date: <u>3/30/09</u>                    |

**Frac. Check Gilson Fractionator (FCS)**

Silica Lot: S212-44 Vendor: PHENOMENEX  
 Frac Check Lot: 120408 PJG Amount of DCM collected: 5000 uL  
 Hexane Lot: 48130 Amount of Hexane collected: 1800 uL  
 DCM Lot: CX673  
 Acetone Lot: 48268 Data File: 120408 B011/B012

| Compound                   | Conc.(ppm) | 2000ul | % REC   | Limits |
|----------------------------|------------|--------|---------|--------|
| Naphthalene                | 50         | 46.803 | 94%     | 40-140 |
| 2-Methylnaphthalene        | 50         | 49.892 | 100%    | 40-140 |
| Acenaphthalene             | 50         | 51.654 | 103%    | 40-140 |
| Acenaphthene               | 50         | 50.707 | 101%    | 40-140 |
| Fluorene                   | 50         | 51.992 | 104%    | 40-140 |
| Phenanthrene               | 50         | 51.620 | 103%    | 40-140 |
| Anthracene                 | 50         | 53.824 | 108%    | 40-140 |
| p-Terphenyl (surr)         | 50         | 53.325 | 107%    | 40-140 |
| Fluoranthene               | 50         | 51.318 | 103%    | 40-140 |
| Pyrene                     | 50         | 53.427 | 107%    | 40-140 |
| Benzo(a)anthracene         | 50         | 49.693 | 99%     | 40-140 |
| Chrysene                   | 50         | 52.239 | 104%    | 40-140 |
| Benzo(b)fluoranthene       | 50         | 51.942 | 104%    | 40-140 |
| Benzo(k)fluoranthene       | 50         | 50.335 | 101%    | 40-140 |
| Benzo(a)pyrene             | 50         | 49.109 | 98%     | 40-140 |
| Indeno(123cd)pyrene        | 50         | 48.503 | 97%     | 40-140 |
| Dibenzo(ah)anthracene      | 50         | 49.190 | 98%     | 40-140 |
| Benzo(ghi)perylene         | 50         | 49.342 | 99%     | 40-140 |
| C9                         | 50         | 37.246 | 74%     | 30-140 |
| C10                        | 50         | 39.046 | 78%     | 40-140 |
| C12                        | 50         | 42.204 | 84%     | 40-140 |
| C14                        | 50         | 45.294 | 91%     | 40-140 |
| C16                        | 50         | 45.650 | 91%     | 40-140 |
| C18                        | 50         | 44.744 | 89%     | 40-140 |
| C19                        | 50         | 44.757 | 90%     | 40-140 |
| C20                        | 50         | 43.918 | 88%     | 40-140 |
| 1-Chloro-octadecane (surr) | 50         | 41.800 | 84%     | 40-140 |
| C22                        | 50         | 45.928 | 92%     | 40-140 |
| C24                        | 50         | 44.108 | 88%     | 40-140 |
| C26                        | 50         | 45.847 | 92%     | 40-140 |
| C28                        | 50         | 44.466 | 89%     | 40-140 |
| C30                        | 50         | 43.350 | 87%     | 40-140 |
| C36                        | 50         | 48.193 | 96%     | 40-140 |
| Fractionation Surrogates   |            |        |         |        |
| 2-Flourobiphenyl           | 50         | 49.032 | 98%     | 40-140 |
| 2-Bromonaphthalene         | 50         | 49.386 | 99%     | 40-140 |
| Aliphatic Bleed thru       |            |        | % (<5%) |        |
| Naphthalene                | 0          |        | 0.000   |        |
| 2-Methylnaphthalene        | 0          |        | 0.000   |        |



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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST., 2ND FLOOR  
 EAST LONGMEAD, MA 01028

Company Name: TLC

Address: 650 Sufolk St

Lowell Ma, 01854

Attention: Tom B10151

Project Location: 235 Taylor St. Pittsfield MA

Sampled By: H. P. 1229

Proposal Provided? (For Billing purposes)

yes  no

State Form Required?

yes  no

Telephone: (978) 970-5600  
 Project # 158037.0020  
 Client PO # \_\_\_\_\_

DATA DELIVERY (check one):

FAX  EMAIL  WEBSITE CLIENT

Fax #:

Email: TB10151@TLCsolu.com

Format:  EXCEL  PDF  GIS KEY

OTHER

| Field ID      | Sample Description | Lab #       | Start Date/Time | Stop Date/Time | Comp-<br>osite | Grab | *Matrix<br>Code | Conc.<br>Code | Analysis Requested          | # of containers | **Preservation |
|---------------|--------------------|-------------|-----------------|----------------|----------------|------|-----------------|---------------|-----------------------------|-----------------|----------------|
| MW-1 (1-3')   | (2')               | 08729 12738 | 3/23/09 0925    | 0945           | X              | X    | S               | S             | VPH<br>EPH<br>PCB's<br>Lead | 1               | →              |
| MW-1 (8-10')  | (9')               | 08730 12739 |                 | 0950           | X              | X    | S               | S             |                             | 1               | →              |
| MW-1 (10-12') | (11')              | (10)        |                 | 1110           | X              | X    | S               | S             |                             | 1               | →              |
| MW-2 (1-3')   | (2')               | 08731 12740 |                 | 1130           | X              | X    | S               | S             |                             | 1               | →              |
| MW-2 (8-10')  | (9')               | 08732 12741 |                 | 1250           | X              | X    | S               | S             |                             | 1               | →              |
| MW-3 (1-3')   | (2')               | 08733 12742 |                 | 1330           | X              | X    | S               | S             |                             | 1               | →              |
| MW-3 (10-12') | (11')              | 08734 12743 |                 | 1340           | X              | X    | S               | S             |                             | 1               | →              |
| MW-3 (16-18') | (17')              | 08735 12744 |                 |                | X              | X    | S               | S             |                             | 1               | →              |

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Detection Limit Requirements

Regulations? RES1

Data Enhancement Project/RCP?  Y  N

Special Requirements or DL's: \_\_\_\_\_

\*Matrix Code:

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

\*\*Preservation Codes:

I = iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium bisulfate  
 O = Other

Reindiquished by (signature): [Signature] Date/Time: 3/23/09 1600

Received by (signature): [Signature] Date/Time: 3/23/09 1600

Relinquished by (signature): [Signature] Date/Time: 3/23/09 1730

Received by (signature): [Signature] Date/Time: 3/23/09 1730

Turnaround \*\*

7-Day  
 10-Day  
 Other \_\_\_\_\_

RUSH \*  
 \*24-Hr  \*48-Hr  
 \*72-Hr  \*4-Day

\* Require lab approval

\*\* TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com  
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
 EAST LONGMEADOW, MA 01028

Company Name: TC

Address: 650 Southfield St.

Lowell MA - 01854

Attention: Tom Bivisi

Project Location: 235 Tyler St. Hshfield Ma.

Sampled By: HRB-TA

Proposal Provided? (For Billing purposes)

yes  no

State Form Required?

yes  no

Client PO # \_\_\_\_\_  
 Telephone: (98) 970-5600  
 Project # LS8037.0020

DATA DELIVERY (check one):

FAX  EMAIL  WEBSITE CLIENT

Fax # : \_\_\_\_\_

Email: tbivisi@contestlabs.com

Format:  EXCEL  PDF  GIS KEY

OTHER

5 2 3  
 M I S  
 V A →

ANALYSIS REQUESTED

# of containers  
 \*\*Preservation  
 -Cont. Code

VPH  
 EPH  
 PCBs  
 Lead

-Cont. Code:  
 A=amber glass  
 G=glass  
 P=plastic  
 ST=sterile  
 V=vial  
 S=summary can  
 T=teardrop bag  
 O=Other

| Field ID | Sample Description  | Lab #     | Date Sampled    |                | Comp. osite | Grab | Matrix Code | Conc. Code | Client | Comments: |
|----------|---------------------|-----------|-----------------|----------------|-------------|------|-------------|------------|--------|-----------|
|          |                     |           | Start Date/Time | Stop Date/Time |             |      |             |            |        |           |
| DUP-1    | (13)(21)            | 0836/4445 | 3/23/09         | ---            | X           | X    | S           | X          |        |           |
| B-4      | <del>12-12-12</del> |           | 3/23/09         | 1540           | X           | X    | S           | X          |        |           |
| B-4      | (12-14) (13)        |           | 3/23/09         |                | X           | X    | S           | X          |        |           |
| TAIR     | BLANK               | 08747     | 3/23/09         |                | X           | X    | S           | X          |        |           |

Laboratory Comments:

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

Relinquished by: (signature)

Date/Time: 3/23/09 1600

Turnaround \*\*  
 7-Day  
 10-Day  
 Other

Detection Limit Requirements  
 Regulations? LC 51

\*\*Matrix Code:  
 GW = groundwater  
 WW = wastewater  
 DW = drinking water  
 A = air

\*\*Preservation Codes:  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium bisulfate  
 O = Other

Received by: (signature)

Date/Time: 3/23/09 1600

Relinquished by: (signature)

Date/Time: 3/23/09 1730

Received by: (signature)

Date/Time: 3/23/09 1730

\*24-Hr  \*48-Hr  
 \*72-Hr  \*4-Day  
 \* Require lab approval

Data Enhancement Project/RCP?  Y  N  
 Special Requirements or DL's: \_\_\_\_\_

S = soil/solid  
 SL = sludge  
 O = other

X = Na hydroxide  
 T = Na thiosulfate

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

### Sample Receipt Checklist

CLIENT NAME: TRC LOW RECEIVED BY: CFC DATE: 3/23/09

- 1) Was the chain(s) of custody relinquished and signed?  Yes  No
- 2) Does the chain agree with the samples?  Yes  No  
If not, explain:
- 3) Are all the samples in good condition?  Yes  No  
If not, explain:

4) How were the samples received:  
 On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?  Yes  No  
 Temperature °C by Temp blank 3-0c Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter?  Yes  No  
 Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

7) Are there any RUSH or SHORT HOLDING TIME samples?  Yes  No  
 Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

8) Location where samples are stored:

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

### Containers sent in to Con-Test

|                                | # of containers |  |                      | # of containers |
|--------------------------------|-----------------|--|----------------------|-----------------|
| 1 Liter Amber                  |                 |  | 8 oz clear jar       |                 |
| 500 mL Amber                   |                 |  | 4 oz clear jar       |                 |
| 250 mL Amber (8oz amber)       | 10              |  | 2 oz clear jar       |                 |
| 1 Liter Plastic                |                 |  | Other glass jar      |                 |
| 500 mL Plastic                 |                 |  | Plastic Bag / Ziploc |                 |
| 250 mL plastic                 |                 |  | Air Cassette         |                 |
| 40 mL Vial - type listed below | 21              |  | Brass Sleeves        |                 |
| Colisure / bacteria bottle     |                 |  | Tubes                |                 |
| Dissolved Oxygen bottle        |                 |  | Summa Cans           |                 |
| Flashpoint bottle              |                 |  | Regulators           |                 |
| Encore                         |                 |  | Other                |                 |

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol 21  
 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_  
 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen: \_\_\_\_\_

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



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

REPORT DATE 3/6/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-23539  
JOB NUMBER: 158037-0020

PROJECT LOCATION: 235 TYLER STREET, PITTSFIELD, MA.

| FIELD SAMPLE # | LAB ID   | MATRIX | SAMPLE DESCRIPTION | TEST           | Subcontract Lab (if any) Cert. Nos. |
|----------------|----------|--------|--------------------|----------------|-------------------------------------|
| BOT-1          | 09B05752 | SOIL   | Not Specified      | eph - solid 04 |                                     |
| BOT-1          | 09B05752 | SOIL   | Not Specified      | solids eph/vph |                                     |
| BOT-1          | 09B05752 | SOIL   | Not Specified      | vph - solid 04 |                                     |
| BOT-2          | 09B05754 | SOIL   | Not Specified      | eph - solid 04 |                                     |
| BOT-2          | 09B05754 | SOIL   | Not Specified      | solids eph/vph |                                     |
| BOT-2          | 09B05754 | SOIL   | Not Specified      | vph - solid 04 |                                     |
| COMP-1         | 09B05753 | SOIL   | Not Specified      | eph - solid 04 |                                     |
| COMP-1         | 09B05753 | SOIL   | Not Specified      | solids eph/vph |                                     |
| COMP-2         | 09B05755 | SOIL   | Not Specified      | eph - solid 04 |                                     |
| COMP-2         | 09B05755 | SOIL   | Not Specified      | solids eph/vph |                                     |



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

REPORT DATE 3/6/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-23539  
JOB NUMBER: 158037-0020

Comments :

LIMS BATCH NO. : LIMIT-23539

**CASE NARRATIVE SUMMARY**

Recommended sample holding times were not exceeded for all samples unless listed below:  
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

There are no analytical issues which affect the usability of the data.

**DETAILED CASE NARRATIVE**

**EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) MADEP-EPH-04-1.1 ADDITIONAL DETAILS**

Solid samples, if any, in the batch were extracted by the following method:  
Microwave: SW846 3546

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch.

Target compounds are subtracted from the C11-C22 aromatic range but not from the unadjusted C11-C22 aromatic range.  
No significant modifications were made to the method.

All EPH samples were analyzed undiluted unless specified below:

| Sample   | Dilution(s)           |
|----------|-----------------------|
| 09B05752 | undilute, 5x, and 20x |

All EPH surrogate standard recoveries were within control limits specified by the method unless listed below:  
None outside of control limits

**EPH QC Surrogate Recoveries**

**BLANK-130199**

|                     |       |
|---------------------|-------|
| 2-Fluorobiphenyl:   | 98.0% |
| 2-Bromonaphthalene: | 101%  |
| 1-Chlorooctadecane: | 89.3% |
| o-Terphenyl:        | 105%  |

**LFBLANK-92353**

|                     | LFB   | LFB Duplicate |
|---------------------|-------|---------------|
| 2-Fluorobiphenyl:   | 101%  | 97.1%         |
| 2-Bromonaphthalene  | 103%  | 100%          |
| 1-Chlorooctadecane: | 79.1% | 75.8%         |
| O-Terphenyl:        | 106%  | 98.8%         |



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

REPORT DATE 3/6/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-23539  
JOB NUMBER: 158037-0020

**VOLATILE PETROLEUM HYDROCARBONS (VPH) MADEP-VPH-04-1.1 ADDITIONAL DETAILS**

Target compounds are subtracted from the summed ranges, but not from the unadjusted ranges.  
C9-C12 aliphatic hydrocarbons exclude the concentration of C9-C10 aromatic hydrocarbons.  
No significant modifications were made to the method.

All VPH samples were received preserved properly (water samples pH <2; soil samples in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol) in the proper containers at 4° C. +/- 2° as specified on the chain-of-custody form unless specified below:

Sample            Soil/Methanol Ratio  
09B05754            1.97

All VPH samples were analyzed undiluted unless specified below:

Sample            Dilution(s)  
09B05752            x5 and undilute

**VPH QC Surrogate Recoveries for sample 09B05752**

**BLANK-130287**

2,5-Dibromotoluene PID            104%

**BLANK-130288**

2,5-Dibromotoluene FID            100%

LFBLANK-92450            LFB            LFB Duplicate

2,5-Dibromotoluene PID            107%            98.4%

LFBLANK-92452            LFB            LFB Duplicate

2,5-Dibromotoluene FID            107%            98.4%

**VPH QC Surrogate Recoveries for sample 09B05754**

**BLANK-130284**

2,5-Dibromotoluene PID            93.1%

**BLANK-130286**

2,5-Dibromotoluene FID            94.1%

LFBLANK-92447            LFB            LFB Duplicate

2,5-Dibromotoluene PID            118%            97.8%

LFBLANK-92448            LFB            LFB Duplicate

2,5-Dibromotoluene FID            120%            97.6%





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

REPORT DATE 3/6/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMT-23539  
JOB NUMBER: 158037-0020

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

|                           |                                 |                                 |
|---------------------------|---------------------------------|---------------------------------|
| AIHA 100033               | AIHA ELLAP (LEAD) 100033        | NORTH CAROLINA CERT. # 652      |
| MASSACHUSETTS MA0100      | NEW HAMPSHIRE NELAP 2516        | NEW JERSEY NELAP NJ MA007 (AIR) |
| CONNECTICUT PH-0567       | VERMONT DOH (LEAD) No. LL015036 | FLORIDA DOH E871027 (AIR)       |
| NEW YORK ELAP/NELAP 10899 | RHODE ISLAND (LIC. No. 112)     |                                 |

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 3/6/09  
SIGNATURE DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor

\* See end of data tabulation for notes and comments pertaining to this sample



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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/6/2009  
Page 1 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
Job Number: 158037-0020

Field Sample #: BOT-1

Sample ID: 09B05752      ‡Sampled: 2/25/2009  
Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit<br>Lo      Hi | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|--------------------------|------|
| C9-C18 Aliphatics            | mg/kg dry wt | 1390      | 03/03/09      | CJM     | 35.0 |                          |      |
| C19-C36 Aliphatics           | mg/kg dry wt | 457       | 03/03/09      | CJM     | 35.0 |                          |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | 598       | 03/03/09      | CJM     | 35.0 |                          |      |
| C11-C22 Aromatics            | mg/kg dry wt | 579       | 03/03/09      | CJM     | 35.0 |                          |      |
| Acenaphthene                 | mg/kg dry wt | 1.8       | 03/03/09      | CJM     | 0.2  |                          |      |
| Acenaphthylene               | mg/kg dry wt | 2.1       | 03/03/09      | CJM     | 0.2  |                          |      |
| Anthracene                   | mg/kg dry wt | 1.3       | 03/03/09      | CJM     | 0.2  |                          |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| Fluoranthene                 | mg/kg dry wt | 0.5       | 03/03/09      | CJM     | 0.2  |                          |      |
| Fluorene                     | mg/kg dry wt | 3.9       | 03/03/09      | CJM     | 0.2  |                          |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |                          |      |
| 2-Methylnaphthalene          | mg/kg dry wt | 4.5       | 03/03/09      | CJM     | 0.2  |                          |      |
| Naphthalene                  | mg/kg dry wt | 1.3       | 03/03/09      | CJM     | 0.2  |                          |      |
| Phenanthrene                 | mg/kg dry wt | 2.4       | 03/03/09      | CJM     | 0.2  |                          |      |
| Pyrene                       | mg/kg dry wt | 1.2       | 03/03/09      | CJM     | 0.2  |                          |      |
| Date Extracted EPH Solid     |              | 2/28/2009 | 03/03/09      | CJM     |      |                          |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/6/2009  
Page 2 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
Job Number: 158037-0020

**Field Sample # : BOT-1**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/6/2009  
 Page 3 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
 Job Number: 158037-0020

Field Sample #: BOT-2

Sample ID: 09B05754      ‡Sampled: 2/25/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.6 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.6 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.6 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.6 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | 0.2       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 2/28/2009 | 03/03/09      | CJM     |      |            |    |      |

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NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/6/2009  
Page 4 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
Job Number: 158037-0020

**Field Sample # : BOT-2**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/6/2009  
 Page 5 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.

LIMS-BAT #: LIMIT-23539

Date Received: 2/26/2009

Job Number: 158037-0020

Field Sample #: **COMP-1**

Sample ID: **09B05753**

‡Sampled: 2/25/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/03/09      | CJM     | 34.0 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/03/09      | CJM     | 34.0 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/03/09      | CJM     | 34.0 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/03/09      | CJM     | 34.0 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | 0.2       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | 0.2       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 2/28/2009 | 03/03/09      | CJM     |      |            |    |      |

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/6/2009  
Page 6 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
Job Number: 158037-0020

**Field Sample # : COMP-1**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/6/2009  
 Page 7 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
 Job Number: 158037-0020

Field Sample #: **COMP-2**

Sample ID: **09B05755**      ‡Sampled: 2/25/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results   | Date Analyzed | Analyst | RL   | SPEC Limit |    | P/ F |
|------------------------------|--------------|-----------|---------------|---------|------|------------|----|------|
|                              |              |           |               |         |      | Lo         | Hi |      |
| C9-C18 Aliphatics            | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.1 |            |    |      |
| C19-C36 Aliphatics           | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.1 |            |    |      |
| Unadjusted C11-C22 Aromatics | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.1 |            |    |      |
| C11-C22 Aromatics            | mg/kg dry wt | ND        | 03/03/09      | CJM     | 32.1 |            |    |      |
| Acenaphthene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Acenaphthylene               | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Anthracene                   | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)anthracene           | mg/kg dry wt | 0.4       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(a)pyrene               | mg/kg dry wt | 0.4       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(b)fluoranthene         | mg/kg dry wt | 0.5       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(g,h,i)perylene         | mg/kg dry wt | 0.5       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Benzo(k)fluoranthene         | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Chrysene                     | mg/kg dry wt | 0.4       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Dibenzo(a,h)anthracene       | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Fluoranthene                 | mg/kg dry wt | 0.5       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Fluorene                     | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Indeno(1,2,3-cd)pyrene       | mg/kg dry wt | 0.4       | 03/03/09      | CJM     | 0.2  |            |    |      |
| 2-Methylnaphthalene          | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Phenanthrene                 | mg/kg dry wt | ND        | 03/03/09      | CJM     | 0.2  |            |    |      |
| Pyrene                       | mg/kg dry wt | 0.6       | 03/03/09      | CJM     | 0.2  |            |    |      |
| Date Extracted EPH Solid     |              | 2/28/2009 | 03/03/09      | CJM     |      |            |    |      |

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

3/6/2009  
Page 8 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
Job Number: 158037-0020

**Field Sample # : COMP-2**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE AND ACETONE BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM THE UNADJUSTED C11-C22 AROMATIC RANGE.

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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/6/2009  
 Page 10 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
 Job Number: 158037-0020

Field Sample #: BOT-1

Sample ID: 09B05752      ‡Sampled: 2/25/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 03/05/09      | EH      | 18.3  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 03/05/09      | EH      | 18.3  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | 111     | 03/05/09      | EH      | 12.2  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | 37.9    | 03/05/09      | EH      | 12.2  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | 72.8    | 03/05/09      | EH      | 12.2  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 03/05/09      | EH      | 0.061 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 03/05/09      | EH      | 0.061 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 03/05/09      | EH      | 0.061 |            |    |      |
| Naphthalene                  | mg/kg dry wt | 3.83    | 03/05/09      | EH      | 0.608 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 03/05/09      | EH      | 0.061 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 03/05/09      | EH      | 0.122 |            |    |      |
| o-Xylene                     | mg/kg dry wt | 0.257   | 03/05/09      | EH      | 0.061 |            |    |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

3/6/2009  
 Page 11 of 12

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
 Date Received: 2/26/2009

LIMS-BAT #: LIMIT-23539  
 Job Number: 158037-0020

Field Sample #: BOT-2

Sample ID: 09B05754      ‡Sampled: 2/25/2009  
 Not Specified

Sample Matrix: SOIL

|                              | Units        | Results | Date Analyzed | Analyst | RL    | SPEC Limit |    | P/ F |
|------------------------------|--------------|---------|---------------|---------|-------|------------|----|------|
|                              |              |         |               |         |       | Lo         | Hi |      |
| Unadjusted C5-C8 Aliphatics  | mg/kg dry wt | ND      | 02/27/09      | EH      | 10.2  |            |    |      |
| C5-C8 Aliphatics             | mg/kg dry wt | ND      | 02/27/09      | EH      | 10.2  |            |    |      |
| Unadjusted C9-C12 Aliphatics | mg/kg dry wt | ND      | 02/27/09      | EH      | 6.74  |            |    |      |
| C9-C12 Aliphatics            | mg/kg dry wt | ND      | 02/27/09      | EH      | 6.74  |            |    |      |
| C9-C10 Aromatics             | mg/kg dry wt | ND      | 02/27/09      | EH      | 6.74  |            |    |      |
| Benzene                      | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.034 |            |    |      |
| Ethylbenzene                 | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.034 |            |    |      |
| MTBE                         | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.034 |            |    |      |
| Naphthalene                  | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.337 |            |    |      |
| Toluene                      | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.034 |            |    |      |
| m/p-Xylene                   | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.068 |            |    |      |
| o-Xylene                     | mg/kg dry wt | ND      | 02/27/09      | EH      | 0.034 |            |    |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

Purchase Order No.:

Project Location: 235 TYLER STREET, PITTSFIELD, MA.  
Date Received: 2/26/2009

3/6/2009  
Page 12 of 12

LIMS-BAT #: LIMIT-23539  
Job Number: 158037-0020

\*\* END OF REPORT \*\*

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

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/6/2009

Lims Bat # : LIMIT-23539

Page 1 of 15

QC Batch Number: GC/FID-23195

| Sample Id    | Analysis                               | QC Analysis        | Values | Units        | Limits |
|--------------|--|--------------------|--------|--------------|--------|
| 09B05752     | 2-Fluorobiphenyl                       | Surrogate Recovery | 83.9   | %            | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 53.7   | %            | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 71.9   | %            | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 90.4   | %            | 40-140 |
| 09B05753     | 2-Fluorobiphenyl                       | Surrogate Recovery | 88.8   | %            | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 92.5   | %            | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 43.6   | %            | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 47.3   | %            | 40-140 |
| 09B05754     | 2-Fluorobiphenyl                       | Surrogate Recovery | 90.8   | %            | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 94.6   | %            | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 58.9   | %            | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 77.0   | %            | 40-140 |
| 09B05755     | 2-Fluorobiphenyl                       | Surrogate Recovery | 92.8   | %            | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 95.9   | %            | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 67.9   | %            | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 89.0   | %            | 40-140 |
| BLANK-130199 | Naphthalene                            | Blank              | <0.2   | mg/kg dry wt |        |
|              | Acenaphthene                           | Blank              | <0.2   | mg/kg dry wt |        |
|              | Acenaphthylene                         | Blank              | <0.2   | mg/kg dry wt |        |
|              | Anthracene                             | Blank              | <0.2   | mg/kg dry wt |        |
|              | Benzo(a)anthracene                     | Blank              | <0.2   | mg/kg dry wt |        |
|              | Benzo(a)pyrene                         | Blank              | <0.2   | mg/kg dry wt |        |
|              | Benzo(b)fluoranthene                   | Blank              | <0.2   | mg/kg dry wt |        |
|              | Benzo(g,h,i)perylene                   | Blank              | <0.2   | mg/kg dry wt |        |
|              | Chrysene                               | Blank              | <0.2   | mg/kg dry wt |        |
|              | Dibenzo(a,h)anthracene                 | Blank              | <0.2   | mg/kg dry wt |        |
|              | Fluoranthene                           | Blank              | <0.2   | mg/kg dry wt |        |
|              | Fluorene                               | Blank              | <0.2   | mg/kg dry wt |        |
|              | Indeno(1,2,3-cd)pyrene                 | Blank              | <0.2   | mg/kg dry wt |        |
|              | 2-Methylnaphthalene                    | Blank              | <0.2   | mg/kg dry wt |        |
|              | Phenanthrene                           | Blank              | <0.2   | mg/kg dry wt |        |
|              | Pyrene                                 | Blank              | <0.2   | mg/kg dry wt |        |
|              | Benzo(k)fluoranthene                   | Blank              | <0.2   | mg/kg dry wt |        |
|              | n-Nonane                               | Blank              | <0.2   | mg/kg dry wt |        |
|              | Naphthalene Aliphatic Fraction         | Blank              | <0.2   | mg/kg dry wt |        |
|              | 2-Methylnaphthalene Aliphatic Fraction | Blank              | <0.2   | mg/kg dry wt |        |
|              | Unadjusted C11-C22 Aromatics           | Blank              | <30.1  | mg/kg dry wt |        |
|              | C9-C18 Aliphatics                      | Blank              | <30.1  | mg/kg dry wt |        |
|              | C19-C36 Aliphatics                     | Blank              | <30.1  | mg/kg dry wt |        |

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| Sample Id     | Analysis           | QC Analysis          | Values | Units        | Limits |
|---------------|--------------------|----------------------|--------|--------------|--------|
| BLANK-130199  | C11-C22 Aromatics  | Blank                | <30.1  | mg/kg dry wt |        |
| LFBLANK-92353 | Naphthalene        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 4.1    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 82.5   | %            | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 3.9    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 78.9   | %            | 40-140 |
|               |                    | Lab Fort Blank Range | 3.5    | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 80.7   | %            |        |
|               |                    | LFB Duplicate RPD    | 4.4    | %            | 0-25   |
|               | Acenaphthene       | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 4.5    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 91.6   | %            | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 4.3    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 87.8   | %            | 40-140 |
|               |                    | Lab Fort Blank Range | 3.7    | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 89.7   | %            |        |
|               |                    | LFB Duplicate RPD    | 4.1    | %            | 0-25   |
|               | Acenaphthylene     | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 4.6    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 93.1   | %            | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 89.1   | %            | 40-140 |
|               |                    | Lab Fort Blank Range | 4.0    | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 91.1   | %            |        |
|               |                    | LFB Duplicate RPD    | 4.4    | %            | 0-25   |
|               | Anthracene         | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 4.8    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 97.5   | %            | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 4.6    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 92.3   | %            | 40-140 |
|               |                    | Lab Fort Blank Range | 5.2    | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 94.9   | %            |        |
|               |                    | LFB Duplicate RPD    | 5.5    | %            | 0-25   |
|               | Benzo(a)anthracene | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 4.4    | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 89.1   | %            | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 4.2    | mg/kg dry wt |        |

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| Sample Id     | Analysis               | QC Analysis          | Values | Units        | Limits |
|---------------|------------------------|----------------------|--------|--------------|--------|
| LFBLANK-92353 |                        |                      |        |              |        |
|               | Benzo(a)anthracene     | Dup Lab Fort Bl %Rec | 84.4   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 4.7    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 86.7   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.4    | %            | 0-25   |
|               | Benzo(a)pyrene         | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.4    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 89.6   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               | Benzo(b)fluoranthene   | Dup Lab Fort Bl. Fnd | 4.2    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 84.5   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 5.1    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 87.1   | %            |        |
|               | Benzo(g,h,i)perylene   | LFB Duplicate RPD    | 5.9    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 94.3   | %            | 40-140 |
|               | Chrysene               | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.0   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 5.3    | units        |        |
|               | Dibenzo(a,h)anthracene | Lab Fort Bl. Av. Rec | 91.6   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.8    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.5    | mg/kg dry wt |        |
|               | Chrysene               | Lab Fort Blk. % Rec. | 90.6   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.2    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 85.9   | %            | 40-140 |
|               | Dibenzo(a,h)anthracene | Lab Fort Blank Range | 4.7    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 88.3   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.3    | %            | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               | Chrysene               | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 94.3   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               | Dibenzo(a,h)anthracene | Dup Lab Fort Bl %Rec | 89.5   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 4.8    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 91.9   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.2    | %            | 0-25   |
|               | Dibenzo(a,h)anthracene | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.5    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 90.2   | %            | 40-140 |



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|---------------|------------------------|----------------------|--------|--------------|--------|
| LFBLANK-92353 |                        |                      |        |              |        |
|               | Dibenzo(a,h)anthracene | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.2    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 85.3   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 4.8    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 87.8   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.5    | %            | 0-25   |
|               | Fluoranthene           | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 94.1   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.0   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 5.1    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 91.5   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.5    | %            | 0-25   |
|               | Fluorene               | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 94.6   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.8   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 4.7    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 92.2   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.1    | %            | 0-25   |
|               | Indeno(1,2,3-cd)pyrene | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.4    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 89.0   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.1    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 83.9   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 5.0    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 86.5   | %            |        |
|               |                        | LFB Duplicate RPD    | 5.8    | %            | 0-25   |
|               | 2-Methylnaphthalene    | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 4.3    | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 87.8   | %            | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 4.2    | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 84.7   | %            | 40-140 |
|               |                        | Lab Fort Blank Range | 3.0    | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 86.3   | %            |        |
|               |                        | LFB Duplicate RPD    | 3.5    | %            | 0-25   |
|               | Phenanthrene           | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |

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|---------------|--------------------------------|----------------------|--------|--------------|--------|
| LFBLANK-92353 | Phenanthrene                   | Lab Fort Blk. Found  | 4.7    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. % Rec. | 94.6   | %            | 40-140 |
|               |                                | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl. Fnd | 4.4    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl %Rec | 89.5   | %            | 40-140 |
|               |                                | Lab Fort Blank Range | 5.1    | units        |        |
|               |                                | Lab Fort Bl. Av. Rec | 92.0   | %            |        |
|               |                                | LFB Duplicate RPD    | 5.5    | %            | 0-25   |
|               | Pyrene                         | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. Found  | 4.8    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. % Rec. | 97.7   | %            | 40-140 |
|               |                                | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl. Fnd | 4.6    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl %Rec | 92.3   | %            | 40-140 |
|               |                                | Lab Fort Blank Range | 5.3    | units        |        |
|               |                                | Lab Fort Bl. Av. Rec | 95.0   | %            |        |
|               |                                | LFB Duplicate RPD    | 5.6    | %            | 0-25   |
|               | Benzo(k)fluoranthene           | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. Found  | 4.5    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. % Rec. | 91.7   | %            | 40-140 |
|               |                                | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl. Fnd | 4.3    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl %Rec | 86.5   | %            | 40-140 |
|               |                                | Lab Fort Blank Range | 5.1    | units        |        |
|               |                                | Lab Fort Bl. Av. Rec | 89.1   | %            |        |
|               |                                | LFB Duplicate RPD    | 5.8    | %            | 0-25   |
|               | n-Nonane                       | Lab Fort Blank Amt.  | 5.0    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. Found  | 2.7    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. % Rec. | 54.8   | %            | 30-140 |
|               |                                | Dup Lab Fort Bl Amt. | 5.0    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl. Fnd | 2.5    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl %Rec | 51.8   | %            | 30-140 |
|               |                                | Lab Fort Blank Range | 2.9    | units        |        |
|               |                                | Lab Fort Bl. Av. Rec | 53.3   | %            |        |
|               |                                | LFB Duplicate RPD    | 5.5    | %            |        |
|               | Naphthalene Aliphatic Fraction | Lab Fort Blank Amt.  | 4.1    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. Found  | 0.0    | mg/kg dry wt |        |
|               |                                | Lab Fort Blk. % Rec. | 0.0    | %            | 0-5    |
|               |                                | Dup Lab Fort Bl Amt. | 3.9    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl. Fnd | 0.0    | mg/kg dry wt |        |
|               |                                | Dup Lab Fort Bl %Rec | 0.0    | %            | 0-5    |
|               |                                | Lab Fort Blank Range | 0.0    | units        |        |
|               |                                | Lab Fort Bl. Av. Rec | 0.0    | %            |        |

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|---------------|--|----------------------|--------|--------------|--------|
| LFBLANK-92353 | 2-Methylnaphthalene Aliphatic Fraction | Lab Fort Blank Amt.  | 4.3    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 0.0    | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 0.0    | %            | 0-5    |
|               |  | Dup Lab Fort Bl Amt. | 4.2    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 0.0    | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 0.0    | %            | 0-5    |
|               |  | Lab Fort Blank Range | 0.0    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 0.0    | %            |        |
|               | Unadjusted C11-C22 Aromatics           | Lab Fort Blank Amt.  | 85.0   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 81.5   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 95.9   | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 85.0   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 77.5   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 91.2   | %            | 40-140 |
|               |  | Lab Fort Blank Range | 4.7    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 93.5   | %            |        |
|               |  | LFB Duplicate RPD    | 5.0    | %            | 0-25   |
|               | C9-C18 Aliphatics                      | Lab Fort Blank Amt.  | 30.0   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 25.7   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 85.7   | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 30.0   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 25.0   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 83.5   | %            | 40-140 |
|               |  | Lab Fort Blank Range | 2.2    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 84.6   | %            |        |
|               |  | LFB Duplicate RPD    | 2.6    | %            | 0-25   |
|               | C19-C36 Aliphatics                     | Lab Fort Blank Amt.  | 40.0   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. Found  | 37.3   | mg/kg dry wt |        |
|               |  | Lab Fort Blk. % Rec. | 93.2   | %            | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 40.0   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl. Fnd | 37.2   | mg/kg dry wt |        |
|               |  | Dup Lab Fort Bl %Rec | 93.0   | %            | 40-140 |
|               |  | Lab Fort Blank Range | 0.1    | units        |        |
|               |  | Lab Fort Bl. Av. Rec | 93.1   | %            |        |
|               |  | LFB Duplicate RPD    | 0.2    | %            | 0-25   |

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|---------------|------------------------------|----------------------|--------|--------------|--------|
| 09B05752      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 98.9   | %            |        |
| BLANK-130286  | C5-C8 Aliphatics             | Blank                | <16.0  | mg/kg dry wt |        |
|               | C9-C12 Aliphatics            | Blank                | <10.7  | mg/kg dry wt |        |
|               | Unadjusted C5-C8 Aliphatics  | Blank                | <16.0  | mg/kg dry wt |        |
|               | Unadjusted C9-C12 Aliphatics | Blank                | <10.7  | mg/kg dry wt |        |
| LFBLANK-92448 | Nonane                       | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.738  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 85.593 | %            | 30-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.738  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 85.593 | %            | 30-130 |
|               |                              | Lab Fort Blank Range | 0.000  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 85.593 | %            |        |
|               |                              | LFB Duplicate RPD    | 0.000  | %            | 0-25   |
|               | Pentane                      | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.477  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 81.694 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.107  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 76.186 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 5.508  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 78.940 | %            |        |
|               |                              | LFB Duplicate RPD    | 6.977  | %            | 0-25   |
|               | 2-Methylpentane              | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.852  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 87.288 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.460  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 81.440 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 5.847  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 84.364 | %            |        |
|               |                              | LFB Duplicate RPD    | 6.931  | %            | 0-25   |
|               | 2,2,4-Trimethylpentane       | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.596  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 83.474 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.267  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 78.559 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 4.915  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 81.016 | %            |        |
|               |                              | LFB Duplicate RPD    | 6.066  | %            | 0-25   |



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QC Batch Number: GC/FID-23207

| Sample Id     | Analysis           | QC Analysis          | Values | Units        | Limits |
|---------------|--------------------|----------------------|--------|--------------|--------|
| LFBLANK-92448 | n-Decane           | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 6.193  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 92.372 | %            | 70-130 |
|               |                    | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 6.306  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 94.067 | %            | 70-130 |
|               |                    | Lab Fort Blank Range | 1.694  | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 93.220 | %            |        |
|               |                    | LFB Duplicate RPD    | 1.818  | %            | 0-25   |
|               | n-Butylcyclohexane | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 5.522  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 82.372 | %            | 70-130 |
|               |                    | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 5.556  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 82.881 | %            | 70-130 |
|               |                    | Lab Fort Blank Range | 0.508  | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 82.627 | %            |        |
|               |                    | LFB Duplicate RPD    | 0.615  | %            | 0-25   |

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QC Batch Number: GC/FID-23208

| Sample Id     | Analysis                     | QC Analysis          | Values | Units        | Limits |
|---------------|------------------------------|----------------------|--------|--------------|--------|
| 09B05754      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 125.5  | %            |        |
| BLANK-130288  | C5-C8 Aliphatics             | Blank                | <16.0  | mg/kg dry wt |        |
|               | C9-C12 Aliphatics            | Blank                | <10.7  | mg/kg dry wt |        |
|               | Unadjusted C5-C8 Aliphatics  | Blank                | <16.0  | mg/kg dry wt |        |
|               | Unadjusted C9-C12 Aliphatics | Blank                | <10.7  | mg/kg dry wt |        |
| LFBLANK-92452 | Nonane                       | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.590  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 83.389 | %            | 30-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.738  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 85.593 | %            | 30-130 |
|               |                              | Lab Fort Blank Range | 2.203  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 84.491 | %            |        |
|               |                              | LFB Duplicate RPD    | 2.607  | %            | 0-25   |
|               | Pentane                      | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 6.363  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 94.915 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 6.136  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 91.525 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 3.389  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 93.220 | %            |        |
|               |                              | LFB Duplicate RPD    | 3.636  | %            | 0-25   |
|               | 2-Methylpentane              | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 6.534  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 97.457 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 6.193  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 92.372 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 5.084  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 94.915 | %            |        |
|               |                              | LFB Duplicate RPD    | 5.357  | %            | 0-25   |
|               | 2,2,4-Trimethylpentane       | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. Found  | 5.647  | mg/kg dry wt |        |
|               |                              | Lab Fort Blk. % Rec. | 84.237 | %            | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl. Fnd | 5.522  | mg/kg dry wt |        |
|               |                              | Dup Lab Fort Bl %Rec | 82.372 | %            | 70-130 |
|               |                              | Lab Fort Blank Range | 1.864  | units        |        |
|               |                              | Lab Fort Bl. Av. Rec | 83.305 | %            |        |
|               |                              | LFB Duplicate RPD    | 2.238  | %            | 0-25   |



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QC Batch Number: GC/FID-23208

| Sample Id     | Analysis           | QC Analysis          | Values | Units        | Limits |
|---------------|--------------------|----------------------|--------|--------------|--------|
| LFBLANK-92452 | n-Decane           | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 6.250  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 93.220 | %            | 70-130 |
|               |                    | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 6.250  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 93.220 | %            | 70-130 |
|               |                    | Lab Fort Blank Range | 0.000  | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 93.220 | %            |        |
|               |                    | LFB Duplicate RPD    | 0.000  | %            | 0-25   |
|               | n-Butylcyclohexane | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. Found  | 5.568  | mg/kg dry wt |        |
|               |                    | Lab Fort Blk. % Rec. | 83.050 | %            | 70-130 |
|               |                    | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl. Fnd | 5.482  | mg/kg dry wt |        |
|               |                    | Dup Lab Fort Bl %Rec | 81.779 | %            | 70-130 |
|               |                    | Lab Fort Blank Range | 1.271  | units        |        |
|               |                    | Lab Fort Bl. Av. Rec | 82.415 | %            |        |
|               |                    | LFB Duplicate RPD    | 1.542  | %            | 0-25   |



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QC Batch Number: GC/PID-9129

| Sample Id     | Analysis                 | QC Analysis          | Values | Units        | Limits |
|---------------|--------------------------|----------------------|--------|--------------|--------|
| 09B05752      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 104.1  | %            | 70-130 |
| BLANK-130284  | Benzene                  | Blank                | <0.054 | mg/kg dry wt |        |
|               | Ethylbenzene             | Blank                | <0.054 | mg/kg dry wt |        |
|               | Naphthalene              | Blank                | <0.532 | mg/kg dry wt |        |
|               | Toluene                  | Blank                | <0.054 | mg/kg dry wt |        |
|               | o-Xylene                 | Blank                | <0.054 | mg/kg dry wt |        |
|               | m/p-Xylene               | Blank                | <0.107 | mg/kg dry wt |        |
|               | C9-C10 Aromatics         | Blank                | <10.7  | mg/kg dry wt |        |
|               | MTBE                     | Blank                | <0.054 | mg/kg dry wt |        |
| LFBLANK-92447 | Benzene                  | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.534  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 97.457 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 6.250  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 93.220 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 4.237  | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 95.338 | %            |        |
|               |                          | LFB Duplicate RPD    | 4.444  | %            | 0-25   |
|               | Ethylbenzene             | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 5.852  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 87.288 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 5.738  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 85.593 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 1.694  | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 86.440 | %            |        |
|               |                          | LFB Duplicate RPD    | 1.960  | %            | 0-25   |
|               | Naphthalene              | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.250  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 93.220 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 5.852  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 87.288 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 5.932  | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 90.254 | %            |        |
|               |                          | LFB Duplicate RPD    | 6.572  | %            | 0-25   |
|               | Toluene                  | Lab Fort Blank Amt.  | 6.704  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.250  | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 93.220 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704  | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 6.079  | mg/kg dry wt |        |





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QC Batch Number: GC/PID-9129

| Sample Id     | Analysis               | QC Analysis          | Values  | Units        | Limits |
|---------------|------------------------|----------------------|---------|--------------|--------|
| LFBLANK-92447 |                        |                      |         |              |        |
|               | Toluene                | Dup Lab Fort Bl %Rec | 90.677  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 2.542   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 91.949  | %            |        |
|               |                        | LFB Duplicate RPD    | 2.764   | %            | 0-25   |
|               | o-Xylene               | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 6.079   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 90.677  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.079   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 90.677  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 0.000   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 90.677  | %            |        |
|               |                        | LFB Duplicate RPD    | 0.000   | %            | 0-25   |
|               | m/p-Xylene             | Lab Fort Blank Amt.  | 13.409  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 11.590  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 86.440  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 13.409  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 11.590  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 86.440  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 0.000   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 86.440  | %            |        |
|               |                        | LFB Duplicate RPD    | 0.000   | %            | 0-25   |
|               | MTBE                   | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 6.761   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 100.847 | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.306   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 94.067  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 6.779   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 97.457  | %            |        |
|               |                        | LFB Duplicate RPD    | 6.956   | %            | 0-25   |
|               | 1,2,4-TrimethylBenzene | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 5.852   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 87.288  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 5.909   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 88.135  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 0.847   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 87.711  | %            |        |
|               |                        | LFB Duplicate RPD    | 0.966   | %            | 0-25   |

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QC Batch Number: GC/PID-9130

| Sample Id     | Analysis                 | QC Analysis          | Values  | Units        | Limits |
|---------------|--------------------------|----------------------|---------|--------------|--------|
| 09B05754      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 122.0   | %            | 70-130 |
| BLANK-130287  | Benzene                  | Blank                | <0.054  | mg/kg dry wt |        |
|               | Ethylbenzene             | Blank                | <0.054  | mg/kg dry wt |        |
|               | Naphthalene              | Blank                | <0.532  | mg/kg dry wt |        |
|               | Toluene                  | Blank                | <0.054  | mg/kg dry wt |        |
|               | o-Xylene                 | Blank                | <0.054  | mg/kg dry wt |        |
|               | m/p-Xylene               | Blank                | <0.107  | mg/kg dry wt |        |
|               | C9-C10 Aromatics         | Blank                | <10.7   | mg/kg dry wt |        |
|               | MTBE                     | Blank                | <0.054  | mg/kg dry wt |        |
| LFBLANK-92450 | Benzene                  | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 7.102   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 105.932 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 6.875   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 102.542 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 3.389   | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 104.237 | %            |        |
|               |                          | LFB Duplicate RPD    | 3.252   | %            | 0-25   |
|               | Ethylbenzene             | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.250   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 93.220  | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 6.022   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 89.830  | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 3.389   | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 91.525  | %            |        |
|               |                          | LFB Duplicate RPD    | 3.703   | %            | 0-25   |
|               | Naphthalene              | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.931   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 103.389 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 7.102   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl %Rec | 105.932 | %            | 70-130 |
|               |                          | Lab Fort Blank Range | 2.542   | units        |        |
|               |                          | Lab Fort Bl. Av. Rec | 104.661 | %            |        |
|               |                          | LFB Duplicate RPD    | 2.429   | %            | 0-25   |
|               | Toluene                  | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. Found  | 6.761   | mg/kg dry wt |        |
|               |                          | Lab Fort Blk. % Rec. | 100.847 | %            | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                          | Dup Lab Fort Bl. Fnd | 6.534   | mg/kg dry wt |        |



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| Sample Id     | Analysis               | QC Analysis          | Values  | Units        | Limits |
|---------------|------------------------|----------------------|---------|--------------|--------|
| LFBLANK-92450 |                        |                      |         |              |        |
|               | Toluene                | Dup Lab Fort Bl %Rec | 97.457  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 3.389   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 99.152  | %            |        |
|               |                        | LFB Duplicate RPD    | 3.418   | %            | 0-25   |
|               | o-Xylene               | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 6.477   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 96.610  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.250   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 93.220  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 3.389   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 94.915  | %            |        |
|               |                        | LFB Duplicate RPD    | 3.571   | %            | 0-25   |
|               | m/p-Xylene             | Lab Fort Blank Amt.  | 13.409  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 12.443  | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 92.796  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 13.409  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 12.045  | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.830  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 2.966   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 91.313  | %            |        |
|               |                        | LFB Duplicate RPD    | 3.248   | %            | 0-25   |
|               | MTBE                   | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 7.386   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 110.169 | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 7.386   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 110.169 | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 0.000   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 110.169 | %            |        |
|               |                        | LFB Duplicate RPD    | 0.000   | %            | 0-25   |
|               | 1,2,4-TrimethylBenzene | Lab Fort Blank Amt.  | 6.704   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. Found  | 6.193   | mg/kg dry wt |        |
|               |                        | Lab Fort Blk. % Rec. | 92.372  | %            | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 6.704   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl. Fnd | 6.079   | mg/kg dry wt |        |
|               |                        | Dup Lab Fort Bl %Rec | 90.677  | %            | 70-130 |
|               |                        | Lab Fort Blank Range | 1.694   | units        |        |
|               |                        | Lab Fort Bl. Av. Rec | 91.525  | %            |        |
|               |                        | LFB Duplicate RPD    | 1.851   | %            | 0-25   |



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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount Amount of analyte found in a sample.
Blank Method Blank that has been taken though all the steps of the analysis.
LFBLANK Laboratory Fortified Blank (a control sample)
STDADD Standard Added (a laboratory control sample)
Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.
Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.
Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

**MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM**

|  |                              |
|--|------------------------------|
| Laboratory Name: <b>CON-TEST Analytical Laboratory</b> | Project #: <u>LIMT-23539</u> |
| Project Location: <u>235 TYLER STREET, PITTSFIELD</u>  | MADEP RTN <sup>1</sup> :     |

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]  
09B05752-09B05755

Sample Matrices:    Groundwater    Soil/Sediment    Drinking Water    Other: \_\_\_\_\_

|  |           |           |   |                         |                        |
|--|-----------|-----------|---|-------------------------|------------------------|
| <b>MCP SW-846 Methods Used</b>   | 8260B ( ) | 8151A ( ) | 8330 ( )                                | 6010B ( )               | 7470A/1A ( )           |
|  | 8270C ( ) | 8081A ( ) | VPH <input checked="" type="checkbox"/> | 6020 ( )                | 9014M <sup>2</sup> ( ) |
| As specified in MADEP Compendium of Analytical Methods.<br>(check all that apply)  | 8082 ( )  | 8021B ( ) | EPH <input checked="" type="checkbox"/> | 7000 S <sup>3</sup> ( ) | 7196A ( )              |
| 1 List Release Tracking Number (RTN), if known<br>2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method<br>3 S – SW-846 Methods 7000 Series List individual method and analyte. |           |           |   |                         |                        |

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

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

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

|          |  |  |
|----------|--|--|
| <b>E</b> | Were all analytical QC performance standards and recommendations for the specified methods achieved? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup> |
| <b>F</b> | Were results for all analyte-list compounds/elements for the specified method(s) reported?           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup> |

<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

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

|                                 |                              |
|---------------------------------|------------------------------|
| Signature: <u>Edward Denson</u> | Position: Technical Director |
| Printed Name: Edward Denson     | Date: <u>3/6/09</u>          |

**Frac. Check Gilson Fractionator (FCS)**

Silica Lot: S212-44 Vendor: PHENOMENEX  
 Frac Check Lot: 120408 PJG Amount of DCM collected: 5000 uL  
 Hexane Lot: 48130 Amount of Hexane collected: 1800 uL  
 DCM Lot: CX673  
 Acetone Lot: 48268 Data File: 120408 B011/B012

| Compound                   | Conc. (ppm) | 2000ul | % REC   | Limits |
|----------------------------|-------------|--------|---------|--------|
| Naphthalene                | 50          | 46.803 | 94%     | 40-140 |
| 2-Methylnaphthalene        | 50          | 49.892 | 100%    | 40-140 |
| Acenaphthalene             | 50          | 51.654 | 103%    | 40-140 |
| Acenaphthene               | 50          | 50.707 | 101%    | 40-140 |
| Fluorene                   | 50          | 51.992 | 104%    | 40-140 |
| Phenanthrene               | 50          | 51.620 | 103%    | 40-140 |
| Anthracene                 | 50          | 53.824 | 108%    | 40-140 |
| o-Terphenyl (surr)         | 50          | 53.325 | 107%    | 40-140 |
| Fluoranthene               | 50          | 51.318 | 103%    | 40-140 |
| Pyrene                     | 50          | 53.427 | 107%    | 40-140 |
| Benzo(a)anthracene         | 50          | 49.693 | 99%     | 40-140 |
| Chrysene                   | 50          | 52.239 | 104%    | 40-140 |
| Benzo(b)fluoranthene       | 50          | 51.942 | 104%    | 40-140 |
| Benzo(k)fluoranthene       | 50          | 50.335 | 101%    | 40-140 |
| Benzo(a)pyrene             | 50          | 49.109 | 98%     | 40-140 |
| Indeno(123cd)pyrene        | 50          | 48.503 | 97%     | 40-140 |
| Dibenzo(ah)anthracene      | 50          | 49.190 | 98%     | 40-140 |
| Benzo(ghi)perylene         | 50          | 49.342 | 99%     | 40-140 |
| C9                         | 50          | 37.246 | 74%     | 30-140 |
| C10                        | 50          | 39.046 | 78%     | 40-140 |
| C12                        | 50          | 42.204 | 84%     | 40-140 |
| C14                        | 50          | 45.294 | 91%     | 40-140 |
| C16                        | 50          | 45.650 | 91%     | 40-140 |
| C18                        | 50          | 44.744 | 89%     | 40-140 |
| C19                        | 50          | 44.757 | 90%     | 40-140 |
| C20                        | 50          | 43.918 | 88%     | 40-140 |
| 1-Chloro-octadecane (surr) | 50          | 41.800 | 84%     | 40-140 |
| C22                        | 50          | 45.928 | 92%     | 40-140 |
| C24                        | 50          | 44.108 | 88%     | 40-140 |
| C26                        | 50          | 45.847 | 92%     | 40-140 |
| C28                        | 50          | 44.466 | 89%     | 40-140 |
| C30                        | 50          | 43.350 | 87%     | 40-140 |
| C36                        | 50          | 48.193 | 96%     | 40-140 |
| Fractionation Surrogates   |             |        |         |        |
| 2-Fluorobiphenyl           | 50          | 49.032 | 98%     | 40-140 |
| 2-Bromonaphthalene         | 50          | 49.386 | 99%     | 40-140 |
| Aliphatic Bleed thru       |             |        | % (<5%) |        |
| Naphthalene                | 0           |        | 0.000   |        |
| 2-Methylnaphthalene        | 0           |        | 0.000   |        |



Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com  
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
 EAST LONGMEADOW, MA 01028

Company Name: TRC  
 Address: 650 South Main Street  
Lowell, MA  
 Attention: Tom Biolsi

Telephone: (978) 978-5600  
 Project # 158037-0020  
 Client PO # \_\_\_\_\_

Project Location: 235 Tyler St. Pittsfield, MA

Sampled By: K.K. Heavis

Proposal Provided? (For Billing purposes)  
 yes  no

State Form Required?  
 yes  no

DATA DELIVERY (check one):  
 FAX  EMAIL  WEBSITE CLIENT  
 Fax #: \_\_\_\_\_  
 Email: tblolsi@trcsoil.com  
 Format:  EXCEL  PDF  GIS KEY  
 OTHER

| Field ID | Sample Description | Lab # | Start Date/Time | Stop Date/Time | Comp-<br>osite | Grab | Code | Matrix<br>Code | Conc.<br>Code | VPH | EPH |
|----------|--------------------|-------|-----------------|----------------|----------------|------|------|----------------|---------------|-----|-----|
| BOT-1    | COMP-1             | 05752 | 2/25/09         | 1035           | X              |      | S    | U              |               | X   | X   |
| BOT-2    | COMP-2             | 05753 | 2/25/09         | 1040           | X              |      | S    | U              |               | X   | X   |
| COMP-2   |                    | 05754 | 2/25/09         | 1345           | X              |      | S    | U              |               | X   | X   |
|          |                    | 05755 | 2/25/09         | 1350           | X              |      | S    | U              |               | X   | X   |

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

Relinquished by (signature): [Signature] Date/Time: 2/26/09 1050

Received by (signature): [Signature] Date/Time: 2/26/09 1050 AM

Relinquished by (signature): [Signature] Date/Time: \_\_\_\_\_

Received by (signature): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Turnaround \*\*  
 7-Day  
 10-Day  
 Other \_\_\_\_\_  
 RUSH \*  
 \*24-Hr  \*48-Hr  
 \*72-Hr  \*4-Day  
 \* Require lab approval

Detection Limit Requirements  
 Regulations? MLP 5-1/5-2  
 Data Enhancement Project/RCP?  Y  N  
 Special Requirements or DL's: \_\_\_\_\_

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

\*\*Preservation Codes:  
 I = lead  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium bisulfate  
 O = Other

\*Matrix Code: \_\_\_\_\_  
 \*\*Preservation Codes: \_\_\_\_\_

Client Comments: \_\_\_\_\_

AIHA, NELAP & WBE/DBE Certified

### Sample Receipt Checklist

CLIENT NAME: TRC Lowell RECEIVED BY: MK DATE: 2/26/09

- 1) Was the chain(s) of custody relinquished and signed? Yes  No
- 2) Does the chain agree with the samples?  
If not, explain: Yes  No
- 3) Are all the samples in good condition?  
If not, explain: Yes  No

4) How were the samples received:  
On Ice  Direct from Sampling  Ambient  In Cooler(s)

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

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 20C

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

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

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

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

8) Location where samples are stored: 19C

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

### Containers sent in to Con-Test

|                                | # of containers |                      | # of containers |
|--------------------------------|-----------------|----------------------|-----------------|
| 1 Liter Amber                  | 4               | 8 oz clear jar       |                 |
| 500 mL Amber                   |                 | 4 oz clear jar       |                 |
| 250 mL Amber (8oz amber)       |                 | 2 oz clear jar       |                 |
| 1 Liter Plastic                |                 | Other glass jar      |                 |
| 500 mL Plastic                 |                 | Plastic Bag / Ziploc |                 |
| 250 mL plastic                 |                 | Air Cassette         |                 |
| 40 mL Vial - type listed below | 4               | Brass Sleeves        |                 |
| Colisure / bacteria bottle     |                 | Tubes                |                 |
| Dissolved Oxygen bottle        |                 | Summa Cans           |                 |
| Flashpoint bottle              |                 | Regulators           |                 |
| Encore                         |                 | Other                |                 |

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol 4  
# Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_  
# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen: \_\_\_\_\_

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





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

REPORT DATE 4/8/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-24377

JOB NUMBER: -

PROJECT LOCATION: 235 TYLER ST. PITTSFIELD MA

| FIELD SAMPLE # | LAB ID   | MATRIX     | SAMPLE DESCRIPTION | TEST           | Subcontract Lab (if any) Cert. Nos. |
|----------------|----------|------------|--------------------|----------------|-------------------------------------|
| DUP-1          | 09B09998 | GRND WATER | Not Specified      | eph - water 04 |                                     |
| DUP-1          | 09B09998 | GRND WATER | Not Specified      | pb (mg/l) icp  |                                     |
| DUP-1          | 09B09998 | GRND WATER | Not Specified      | vph - water 04 |                                     |
| MW-1           | 09B09995 | GRND WATER | Not Specified      | eph - water 04 |                                     |
| MW-1           | 09B09995 | GRND WATER | Not Specified      | pb (mg/l) icp  |                                     |
| MW-1           | 09B09995 | GRND WATER | Not Specified      | vph - water 04 |                                     |
| MW-2           | 09B09996 | GRND WATER | Not Specified      | eph - water 04 |                                     |
| MW-2           | 09B09996 | GRND WATER | Not Specified      | pb (mg/l) icp  |                                     |
| MW-2           | 09B09996 | GRND WATER | Not Specified      | vph - water 04 |                                     |
| MW-3           | 09B09997 | GRND WATER | Not Specified      | eph - water 04 |                                     |
| MW-3           | 09B09997 | GRND WATER | Not Specified      | pb (mg/l) icp  |                                     |
| MW-3           | 09B09997 | GRND WATER | Not Specified      | vph - water 04 |                                     |
| TRIP BLANK     | 09B09999 | WATER OTHE | Not Specified      | vph - water 04 |                                     |



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

REPORT DATE 4/8/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMIT-24377  
JOB NUMBER: -

Comments :

LIMS BATCH NO. : LIMIT-24377

**CASE NARRATIVE SUMMARY**

Recommended sample holding times were not exceeded for all samples unless listed below:  
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

There are no (other) analytical issues which affect the usability of the data.

**DETAILED CASE NARRATIVE**

**VOLATILE PETROLEUM HYDROCARBONS (VPH) MADEP-VPH-04-1.1 ADDITIONAL DETAILS**

Target compounds are subtracted from the summed ranges, but not from the unadjusted ranges.  
C9-C12 aliphatic hydrocarbons exclude the concentration of C9-C10 aromatic hydrocarbons.  
No significant modifications were made to the method.

All VPH samples were received preserved properly (water samples pH <2; soil samples in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol) in the proper containers at 4° C. +/- 2° as specified on the chain-of-custody form unless specified below:  
All properly preserved

All VPH surrogate standard recoveries were within control limits specified by the method unless listed below:  
None outside of control limits

**VPH QC SURROGATE RECOVERIES**

|                        |       |               |
|------------------------|-------|---------------|
| BLANK-131538           |       |               |
| 2,5-DIBROMOTOLUENE PID | 99.3% |               |
| BLANK-131539           |       |               |
| 2,5-DIBROMOTOLUENE FID | 117%  |               |
| LFBLANK-93783          | LFB   | LFB DUPLICATE |
| 2,5-DIBROMOTOLUENE PID | 97.9% | 111%          |
| LFBLANK-93784          | LFB   | LFB DUPLICATE |
| 2,5-DIBROMOTOLUENE FID | 99.3% | 112%          |

**EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) MADEP-EPH-04-1.1 ADDITIONAL DETAILS**

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch.

Target compounds are subtracted from the C11-C22 aromatic range but not from the unadjusted C11-C22 aromatic range.



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REPORT DATE 4/8/2009

TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852  
ATTN: TOM BIOLSI

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-24377

JOB NUMBER: -

No significant modifications were made to the method.

All EPH surrogate standard recoveries were within control limits specified by the method unless listed below:

None outside of control limits

EPH QC Surrogate Recoveries

|                     |       |               |
|---------------------|-------|---------------|
| BLANK-131540        |       |               |
| 2-Fluorobiphenyl:   | 102%  |               |
| 2-Bromonaphthalene: | 101%  |               |
| 1-Chlorooctadecane: | 84.6% |               |
| o-Terphenyl:        | 92.1% |               |
| LFBLANK-93785       | LFB   | LFB Duplicate |
| 2-Fluorobiphenyl:   | 105%  | 102%          |
| 2-Bromonaphthalene  | 103%  | 99.0%         |
| 1-Chlorooctadecane: | 86.8% | 75.4%         |
| O-Terphenyl:        | 95.4% | 83.8%         |

METHOD SW846-6010 - ADDITIONAL DETAILS

Only Pb was requested and reported.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

|                           |                                 |                                 |
|---------------------------|---------------------------------|---------------------------------|
| AIHA 100033               | AIHA ELLAP (LEAD) 100033        | NORTH CAROLINA CERT. # 652      |
| MASSACHUSETTS MA0100      | NEW HAMPSHIRE NELAP 2516        | NEW JERSEY NELAP NJ MA007 (AIR) |
| CONNECTICUT PH-0567       | VERMONT DOH (LEAD) No. LL015036 | FLORIDA DOH E871027 (AIR)       |
| NEW YORK ELAP/NELAP 10899 | RHODE ISLAND (LIC. No. 112)     |                                 |

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Ted Koppand 4/8/09  
SIGNATURE DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor

\* See end of data tabulation for notes and comments pertaining to this sample



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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
 Page 1 of 15

Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: DUP-1

Sample ID: 09B09998      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results  | Date Analyzed | Analyst | RL  | SPEC Limit<br>Lo Hi | P/ F |
|------------------------------|-------|----------|---------------|---------|-----|---------------------|------|
| C9-C18 Aliphatics            | ug/l  | ND       | 04/07/09      | CJM     | 150 |                     |      |
| C19-C36 Aliphatics           | ug/l  | ND       | 04/07/09      | CJM     | 150 |                     |      |
| Unadjusted C11-C22 Aromatics | ug/l  | ND       | 04/07/09      | CJM     | 100 |                     |      |
| C11-C22 Aromatics            | ug/l  | ND       | 04/07/09      | CJM     | 100 |                     |      |
| Acenaphthene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Acenaphthylene               | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Anthracene                   | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(a)anthracene           | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(a)pyrene               | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(b)fluoranthene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(g,h,i)perylene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(k)fluoranthene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Chrysene                     | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Dibenzo(a,h)anthracene       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Fluoranthene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Fluorene                     | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Indeno(1,2,3-cd)pyrene       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| 2-Methylnaphthalene          | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Naphthalene                  | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Phenanthrene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Pyrene                       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Date Extracted EPH Water     |       | 4/2/2009 | 04/07/09      | CJM     |     |                     |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

4/8/2009  
Page 2 of 15

Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
Date Received: 3/31/2009

LIMS-BAT #: LIMT-24377  
Job Number: -

**Field Sample # : DUP-1**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE PRESERVED TO pH < 2.0 WITH HYDROCHLORIC ACID (HCL).  
SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE ACCORDING TO SW846 3510C, EXCHANGED INTO  
HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS  
BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22  
AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND  
C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND  
CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM  
THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
 Page 3 of 15

Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: MW-1

Sample ID: 09B09995      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results  | Date Analyzed | Analyst | RL  | SPEC Limit<br>Lo      Hi | P/ F |
|------------------------------|-------|----------|---------------|---------|-----|--------------------------|------|
| C9-C18 Aliphatics            | ug/l  | ND       | 04/06/09      | CJM     | 150 |                          |      |
| C19-C36 Aliphatics           | ug/l  | ND       | 04/06/09      | CJM     | 150 |                          |      |
| Unadjusted C11-C22 Aromatics | ug/l  | ND       | 04/06/09      | CJM     | 100 |                          |      |
| C11-C22 Aromatics            | ug/l  | ND       | 04/06/09      | CJM     | 100 |                          |      |
| Acenaphthene                 | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Acenaphthylene               | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Anthracene                   | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Benzo(a)anthracene           | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Benzo(a)pyrene               | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Benzo(b)fluoranthene         | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Benzo(g,h,i)perylene         | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Benzo(k)fluoranthene         | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Chrysene                     | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Dibenzo(a,h)anthracene       | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Fluoranthene                 | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Fluorene                     | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Indeno(1,2,3-cd)pyrene       | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| 2-Methylnaphthalene          | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Naphthalene                  | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Phenanthrene                 | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Pyrene                       | ug/l  | ND       | 04/06/09      | CJM     | 2.0 |                          |      |
| Date Extracted EPH Water     |       | 4/2/2009 | 04/06/09      | CJM     |     |                          |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
Job Number: -

**Field Sample # : MW-1**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE PRESERVED TO pH < 2.0 WITH HYDROCHLORIC ACID (HCL).  
SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE ACCORDING TO SW846 3510C, EXCHANGED INTO  
HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS  
BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22  
AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND  
C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND  
CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM  
THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: MW-2

Sample ID: 09B09996      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results  | Date Analyzed | Analyst | RL  | SPEC Limit<br>Lo      Hi | P/ F |
|------------------------------|-------|----------|---------------|---------|-----|--------------------------|------|
| C9-C18 Aliphatics            | ug/l  | ND       | 04/07/09      | CJM     | 150 |                          |      |
| C19-C36 Aliphatics           | ug/l  | ND       | 04/07/09      | CJM     | 150 |                          |      |
| Unadjusted C11-C22 Aromatics | ug/l  | ND       | 04/07/09      | CJM     | 100 |                          |      |
| C11-C22 Aromatics            | ug/l  | ND       | 04/07/09      | CJM     | 100 |                          |      |
| Acenaphthene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Acenaphthylene               | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Anthracene                   | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Benzo(a)anthracene           | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Benzo(a)pyrene               | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Benzo(b)fluoranthene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Benzo(g,h,i)perylene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Benzo(k)fluoranthene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Chrysene                     | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Dibenzo(a,h)anthracene       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Fluoranthene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Fluorene                     | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Indeno(1,2,3-cd)pyrene       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| 2-Methylnaphthalene          | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Naphthalene                  | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Phenanthrene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Pyrene                       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                          |      |
| Date Extracted EPH Water     |       | 4/2/2009 | 04/07/09      | CJM     |     |                          |      |

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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\* = See end of report for comments and notes applying to this sample

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.





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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
Job Number: -

**Field Sample # : MW-2**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE PRESERVED TO pH < 2.0 WITH HYDROCHLORIC ACID (HCL).  
SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE ACCORDING TO SW846 3510C, EXCHANGED INTO  
HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS  
BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C11-C22  
AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND  
C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND  
CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM  
THE UNADJUSTED C11-C22 AROMATIC RANGE.

RL = Reporting Limit

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SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: MW-3

Sample ID: 09B09997      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results  | Date Analyzed | Analyst | RL  | SPEC Limit<br>Lo Hi | P/ F |
|------------------------------|-------|----------|---------------|---------|-----|---------------------|------|
| C9-C18 Aliphatics            | ug/l  | ND       | 04/07/09      | CJM     | 150 |                     |      |
| C19-C36 Aliphatics           | ug/l  | ND       | 04/07/09      | CJM     | 150 |                     |      |
| Unadjusted C11-C22 Aromatics | ug/l  | ND       | 04/07/09      | CJM     | 100 |                     |      |
| C11-C22 Aromatics            | ug/l  | ND       | 04/07/09      | CJM     | 100 |                     |      |
| Acenaphthene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Acenaphthylene               | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Anthracene                   | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(a)anthracene           | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(a)pyrene               | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(b)fluoranthene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(g,h,i)perylene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Benzo(k)fluoranthene         | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Chrysene                     | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Dibenzo(a,h)anthracene       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Fluoranthene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Fluorene                     | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Indeno(1,2,3-cd)pyrene       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| 2-Methylnaphthalene          | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Naphthalene                  | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Phenanthrene                 | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Pyrene                       | ug/l  | ND       | 04/07/09      | CJM     | 2.0 |                     |      |
| Date Extracted EPH Water     |       | 4/2/2009 | 04/07/09      | CJM     |     |                     |      |

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ND = Not Detected at or above the Reporting Limit

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\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
Job Number: -

**Field Sample # : MW-3**

Analytical Method:  
MADEP-EPH-04-1

SAMPLES ARE PRESERVED TO pH < 2.0 WITH HYDROCHLORIC ACID (HCL).  
SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE ACCORDING TO SW846 3510C, EXCHANGED INTO  
HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS  
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C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND  
CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE, BUT NOT FROM  
THE UNADJUSTED C11-C22 AROMATIC RANGE.

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SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.



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

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: DUP-1

Sample ID: 09B09998 ±Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|      | Units | Results | Date Analyzed | Analyst | RL     | SPEC Limit<br>Lo Hi | P/ F |
|------|-------|---------|---------------|---------|--------|---------------------|------|
| Lead | mg/l  | ND      | 04/07/09      | KSH     | 0.0075 |                     |      |

Field Sample #: MW-1

Sample ID: 09B09995 ±Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|      | Units | Results | Date Analyzed | Analyst | RL     | SPEC Limit<br>Lo Hi | P/ F |
|------|-------|---------|---------------|---------|--------|---------------------|------|
| Lead | mg/l  | ND      | 04/07/09      | KSH     | 0.0075 |                     |      |

Field Sample #: MW-2

Sample ID: 09B09996 ±Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|      | Units | Results | Date Analyzed | Analyst | RL     | SPEC Limit<br>Lo Hi | P/ F |
|------|-------|---------|---------------|---------|--------|---------------------|------|
| Lead | mg/l  | ND      | 04/07/09      | KSH     | 0.0075 |                     |      |

Field Sample #: MW-3

Sample ID: 09B09997 ±Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|      | Units | Results | Date Analyzed | Analyst | RL     | SPEC Limit<br>Lo Hi | P/ F |
|------|-------|---------|---------------|---------|--------|---------------------|------|
| Lead | mg/l  | ND      | 04/07/09      | KSH     | 0.0075 |                     |      |

Analytical Method:

EPA 200.7/SW846 6010

SAMPLES ARE ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: DUP-1

Sample ID: 09B09998      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results | Date Analyzed | Analyst | RL   | SPEC Limit<br>Lo Hi | P/ F |
|------------------------------|-------|---------|---------------|---------|------|---------------------|------|
| Unadjusted C5-C8 Aliphatics  | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C5-C8 Aliphatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Unadjusted C9-C12 Aliphatics | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C12 Aliphatics            | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C10 Aromatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Benzene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Ethyl Benzene                | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| MTBE                         | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Naphthalene                  | ug/l  | ND      | 04/03/09      | EH      | 10.0 |                     |      |
| Toluene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| m/p-Xylene                   | ug/l  | ND      | 04/03/09      | EH      | 2.0  |                     |      |
| o-Xylene                     | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED.

C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: MW-1

Sample ID: 09B09995      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results | Date Analyzed | Analyst | RL   | SPEC Limit<br>Lo      Hi | P/ F |
|------------------------------|-------|---------|---------------|---------|------|--------------------------|------|
| Unadjusted C5-C8 Aliphatics  | ug/l  | ND      | 04/03/09      | EH      | 100  |                          |      |
| C5-C8 Aliphatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                          |      |
| Unadjusted C9-C12 Aliphatics | ug/l  | ND      | 04/03/09      | EH      | 100  |                          |      |
| C9-C12 Aliphatics            | ug/l  | ND      | 04/03/09      | EH      | 100  |                          |      |
| C9-C10 Aromatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                          |      |
| Benzene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                          |      |
| Ethyl Benzene                | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                          |      |
| MTBE                         | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                          |      |
| Naphthalene                  | ug/l  | ND      | 04/03/09      | EH      | 10.0 |                          |      |
| Toluene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                          |      |
| m/p-Xylene                   | ug/l  | ND      | 04/03/09      | EH      | 2.0  |                          |      |
| o-Xylene                     | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                          |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED.

C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: MW-2

Sample ID: 09B09996      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results | Date Analyzed | Analyst | RL   | SPEC Limit<br>Lo Hi | P/ F |
|------------------------------|-------|---------|---------------|---------|------|---------------------|------|
| Unadjusted C5-C8 Aliphatics  | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C5-C8 Aliphatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Unadjusted C9-C12 Aliphatics | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C12 Aliphatics            | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C10 Aromatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Benzene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Ethyl Benzene                | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| MTBE                         | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Naphthalene                  | ug/l  | ND      | 04/03/09      | EH      | 10.0 |                     |      |
| Toluene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| m/p-Xylene                   | ug/l  | ND      | 04/03/09      | EH      | 2.0  |                     |      |
| o-Xylene                     | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |

Analytical Method:  
 MADEP-VPH-04-1.1

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: MW-3

Sample ID: 09B09997      ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: GRND WATER

|                              | Units | Results | Date Analyzed | Analyst | RL   | SPEC Limit<br>Lo Hi | P/ F |
|------------------------------|-------|---------|---------------|---------|------|---------------------|------|
| Unadjusted C5-C8 Aliphatics  | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C5-C8 Aliphatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Unadjusted C9-C12 Aliphatics | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C12 Aliphatics            | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C10 Aromatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Benzene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Ethyl Benzene                | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| MTBE                         | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Naphthalene                  | ug/l  | ND      | 04/03/09      | EH      | 10.0 |                     |      |
| Toluene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| m/p-Xylene                   | ug/l  | ND      | 04/03/09      | EH      | 2.0  |                     |      |
| o-Xylene                     | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |

Analytical Method:

MADEP-VPH-04-1.1

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED.

C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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TOM BIOLSI  
 TRC SOLUTIONS - LOWELL  
 650 SUFFOLK STREET  
 LOWELL, MA 01852

4/8/2009  
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Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
 Date Received: 3/31/2009

LIMS-BAT #: LIMIT-24377  
 Job Number: -

Field Sample #: **TRIP BLANK**

Sample ID: **09B09999** ‡Sampled: 3/31/2009  
 Not Specified

Sample Matrix: WATER OTHER

|                              | Units | Results | Date Analyzed | Analyst | RL   | SPEC Limit<br>Lo Hi | P/ F |
|------------------------------|-------|---------|---------------|---------|------|---------------------|------|
| Unadjusted C5-C8 Aliphatics  | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C5-C8 Aliphatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Unadjusted C9-C12 Aliphatics | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C12 Aliphatics            | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| C9-C10 Aromatics             | ug/l  | ND      | 04/03/09      | EH      | 100  |                     |      |
| Benzene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Ethyl Benzene                | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| MTBE                         | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| Naphthalene                  | ug/l  | ND      | 04/03/09      | EH      | 10.0 |                     |      |
| Toluene                      | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |
| m/p-Xylene                   | ug/l  | ND      | 04/03/09      | EH      | 2.0  |                     |      |
| o-Xylene                     | ug/l  | ND      | 04/03/09      | EH      | 1.0  |                     |      |

Analytical Method:  
 MADEP-VPH-04-1.1

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED.  
 C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

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

TOM BIOLSI  
TRC SOLUTIONS - LOWELL  
650 SUFFOLK STREET  
LOWELL, MA 01852

Purchase Order No.:

Project Location: 235 TYLER ST. PITTSFIELD MA  
Date Received: 3/31/2009

4/8/2009  
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LIMS-BAT #: LIMT-24377  
Job Number: -

\*\* END OF REPORT \*\*

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

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/8/2009

Lims Bat # : LIMIT-24377

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QC Batch Number: GC/FID-23393

| Sample Id     | Analysis                     | QC Analysis          | Values | Units | Limits |
|---------------|------------------------------|----------------------|--------|-------|--------|
| 09B09995      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 113.5  | %     |        |
| 09B09996      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 112.7  | %     |        |
| 09B09997      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 111.7  | %     |        |
| 09B09998      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 114.5  | %     |        |
| 09B09999      | 2,5-Dibromotoluene (FID)     | Sur. Recovery FID    | 106.7  | %     |        |
| BLANK-131539  | C5-C8 Aliphatics             | Blank                | <100.  | ug/l  |        |
|               | C9-C12 Aliphatics            | Blank                | <100.  | ug/l  |        |
|               | Unadjusted C5-C8 Aliphatics  | Blank                | <100.  | ug/l  |        |
|               | Unadjusted C9-C12 Aliphatics | Blank                | <100.  | ug/l  |        |
| LFBLANK-93784 | Nonane                       | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                              | Lab Fort Blk. Found  | 86.2   | ug/l  |        |
|               |                              | Lab Fort Blk. % Rec. | 86.2   | %     | 30-130 |
|               |                              | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                              | Dup Lab Fort Bl. Fnd | 81.2   | ug/l  |        |
|               |                              | Dup Lab Fort Bl %Rec | 81.2   | %     | 30-130 |
|               |                              | Lab Fort Blank Range | 4.9    | units |        |
|               |                              | Lab Fort Bl. Av. Rec | 83.7   | %     |        |
|               |                              | LFB Duplicate RPD    | 5.9    | %     | 0-25   |
|               | Pentane                      | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                              | Lab Fort Blk. Found  | 123.0  | ug/l  |        |
|               |                              | Lab Fort Blk. % Rec. | 123.0  | %     | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                              | Dup Lab Fort Bl. Fnd | 116.0  | ug/l  |        |
|               |                              | Dup Lab Fort Bl %Rec | 116.0  | %     | 70-130 |
|               |                              | Lab Fort Blank Range | 7.0    | units |        |
|               |                              | Lab Fort Bl. Av. Rec | 119.5  | %     |        |
|               |                              | LFB Duplicate RPD    | 5.8    | %     | 0-25   |
|               | 2-Methylpentane              | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                              | Lab Fort Blk. Found  | 120.0  | ug/l  |        |
|               |                              | Lab Fort Blk. % Rec. | 120.0  | %     | 70-130 |
|               |                              | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                              | Dup Lab Fort Bl. Fnd | 114.0  | ug/l  |        |
|               |                              | Dup Lab Fort Bl %Rec | 114.0  | %     | 70-130 |
|               |                              | Lab Fort Blank Range | 6.0    | units |        |
|               |                              | Lab Fort Bl. Av. Rec | 117.0  | %     |        |
|               |                              | LFB Duplicate RPD    | 5.1    | %     | 0-25   |
|               | 2,2,4-Trimethylpentane       | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |



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**QC SUMMARY REPORT**

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/8/2009

Lims Bat # : LIMIT-24377

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QC Batch Number: GC/FID-23393

| Sample Id     | Analysis               | QC Analysis          | Values | Units | Limits |
|---------------|------------------------|----------------------|--------|-------|--------|
| LFBLANK-93784 | 2,2,4-Trimethylpentane | Lab Fort Blk. Found  | 107.0  | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 107.0  | %     | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 101.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 101.0  | %     | 70-130 |
|               |                        | Lab Fort Blank Range | 6.0    | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 104.0  | %     |        |
|               |                        | LFB Duplicate RPD    | 5.7    | %     | 0-25   |
|               | n-Decane               | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                        | Lab Fort Blk. Found  | 92.4   | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 92.4   | %     | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 89.3   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.3   | %     | 70-130 |
|               |                        | Lab Fort Blank Range | 3.1    | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 90.8   | %     |        |
|               |                        | LFB Duplicate RPD    | 3.4    | %     | 0-25   |
|               | n-Butylcyclohexane     | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                        | Lab Fort Blk. Found  | 88.3   | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 88.3   | %     | 70-130 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 83.9   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 83.9   | %     | 70-130 |
|               |                        | Lab Fort Blank Range | 4.3    | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 86.1   | %     |        |
|               |                        | LFB Duplicate RPD    | 5.1    | %     | 0-25   |

**QC SUMMARY REPORT**

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/8/2009

Lims Bat # : LIMIT-24377

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QC Batch Number: GC/FID-23394

| Sample Id    | Analysis                               | QC Analysis        | Values | Units | Limits |
|--------------|--|--------------------|--------|-------|--------|
| 09B09995     | 2-Fluorobiphenyl                       | Surrogate Recovery | 104.5  | %     | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 101.5  | %     | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 64.8   | %     | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 84.3   | %     | 40-140 |
| 09B09996     | 2-Fluorobiphenyl                       | Surrogate Recovery | 104.7  | %     | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 94.6   | %     | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 70.2   | %     | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 78.9   | %     | 40-140 |
| 09B09997     | 2-Fluorobiphenyl                       | Surrogate Recovery | 100.4  | %     | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 92.6   | %     | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 60.7   | %     | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 74.8   | %     | 40-140 |
| 09B09998     | 2-Fluorobiphenyl                       | Surrogate Recovery | 107.8  | %     | 40-140 |
|              | 2-Bromonaphthalene                     | Surrogate Recovery | 101.4  | %     | 40-140 |
|              | Chlorooctadecane                       | Sur. Recovery      | 72.1   | %     | 40-140 |
|              | Terphenyl                              | Sur. Recovery      | 89.0   | %     | 40-140 |
| BLANK-131540 | Naphthalene                            | Blank              | <2.0   | ug/l  |        |
|              | Acenaphthene                           | Blank              | <2.0   | ug/l  |        |
|              | Acenaphthylene                         | Blank              | <2.0   | ug/l  |        |
|              | Anthracene                             | Blank              | <2.0   | ug/l  |        |
|              | Benzo(a)anthracene                     | Blank              | <2.0   | ug/l  |        |
|              | Benzo(a)pyrene                         | Blank              | <2.0   | ug/l  |        |
|              | Benzo(b)fluoranthene                   | Blank              | <2.0   | ug/l  |        |
|              | Benzo(g,h,i)perylene                   | Blank              | <2.0   | ug/l  |        |
|              | Chrysene                               | Blank              | <2.0   | ug/l  |        |
|              | Dibenzo(a,h)anthracene                 | Blank              | <2.0   | ug/l  |        |
|              | Fluoranthene                           | Blank              | <2.0   | ug/l  |        |
|              | Fluorene                               | Blank              | <2.0   | ug/l  |        |
|              | Indeno(1,2,3-cd)pyrene                 | Blank              | <2.0   | ug/l  |        |
|              | 2-Methylnaphthalene                    | Blank              | <2.0   | ug/l  |        |
|              | Phenanthrene                           | Blank              | <2.0   | ug/l  |        |
|              | Pyrene                                 | Blank              | <2.0   | ug/l  |        |
|              | Benzo(k)fluoranthene                   | Blank              | <2.0   | ug/l  |        |
|              | n-Nonane                               | Blank              | <2.0   | ug/l  |        |
|              | Naphthalene Aliphatic Fraction         | Blank              | <2.0   | ug/l  |        |
|              | 2-Methylnaphthalene Aliphatic Fraction | Blank              | <2.0   | ug/l  |        |
|              | Unadjusted C11-C22 Aromatics           | Blank              | <100.  | ug/l  |        |
|              | C9-C18 Aliphatics                      | Blank              | <150.  | ug/l  |        |
|              | C19-C36 Aliphatics                     | Blank              | <150.  | ug/l  |        |



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**QC SUMMARY REPORT**

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/8/2009

Lims Bat # : LIMIT-24377

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QC Batch Number: GC/FID-23394

| Sample Id     | Analysis           | QC Analysis          | Values | Units | Limits |
|---------------|--------------------|----------------------|--------|-------|--------|
| BLANK-131540  | C11-C22 Aromatics  | Blank                | <100.  | ug/l  |        |
| LFBLANK-93785 | Naphthalene        | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                    | Lab Fort Blk. Found  | 76.6   | ug/l  |        |
|               |                    | Lab Fort Blk. % Rec. | 76.6   | %     | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                    | Dup Lab Fort Bl. Fnd | 65.9   | ug/l  |        |
|               |                    | Dup Lab Fort Bl %Rec | 65.9   | %     | 40-140 |
|               |                    | Lab Fort Blank Range | 10.7   | units |        |
|               |                    | Lab Fort Bl. Av. Rec | 71.2   | %     |        |
|               |                    | LFB Duplicate RPD    | 15.0   | %     | 0-25   |
|               | Acenaphthene       | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                    | Lab Fort Blk. Found  | 85.7   | ug/l  |        |
|               |                    | Lab Fort Blk. % Rec. | 85.7   | %     | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                    | Dup Lab Fort Bl. Fnd | 76.0   | ug/l  |        |
|               |                    | Dup Lab Fort Bl %Rec | 76.0   | %     | 40-140 |
|               |                    | Lab Fort Blank Range | 9.6    | units |        |
|               |                    | Lab Fort Bl. Av. Rec | 80.8   | %     |        |
|               |                    | LFB Duplicate RPD    | 11.9   | %     | 0-25   |
|               | Acenaphthylene     | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                    | Lab Fort Blk. Found  | 89.4   | ug/l  |        |
|               |                    | Lab Fort Blk. % Rec. | 89.4   | %     | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                    | Dup Lab Fort Bl. Fnd | 78.5   | ug/l  |        |
|               |                    | Dup Lab Fort Bl %Rec | 78.5   | %     | 40-140 |
|               |                    | Lab Fort Blank Range | 10.9   | units |        |
|               |                    | Lab Fort Bl. Av. Rec | 83.9   | %     |        |
|               |                    | LFB Duplicate RPD    | 13.0   | %     | 0-25   |
|               | Anthracene         | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                    | Lab Fort Blk. Found  | 101.0  | ug/l  |        |
|               |                    | Lab Fort Blk. % Rec. | 101.0  | %     | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                    | Dup Lab Fort Bl. Fnd | 89.4   | ug/l  |        |
|               |                    | Dup Lab Fort Bl %Rec | 89.4   | %     | 40-140 |
|               |                    | Lab Fort Blank Range | 11.5   | units |        |
|               |                    | Lab Fort Bl. Av. Rec | 95.2   | %     |        |
|               |                    | LFB Duplicate RPD    | 12.1   | %     | 0-25   |
|               | Benzo(a)anthracene | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                    | Lab Fort Blk. Found  | 101.6  | ug/l  |        |
|               |                    | Lab Fort Blk. % Rec. | 101.6  | %     | 40-140 |
|               |                    | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                    | Dup Lab Fort Bl. Fnd | 91.7   | ug/l  |        |



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

**QC SUMMARY REPORT**

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/8/2009

Lims Bat # : LIMIT-24377

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QC Batch Number: GC/FID-23394

| Sample Id     | Analysis               | QC Analysis          | Values | Units | Limits |        |
|---------------|------------------------|----------------------|--------|-------|--------|--------|
| LFBLANK-93785 |                        |                      |        |       |        |        |
|               | Benzo(a)anthracene     | Dup Lab Fort Bl %Rec | 91.7   | %     | 40-140 |        |
|               |                        | Lab Fort Blank Range | 9.8    | units |        |        |
|               |                        | Lab Fort Bl. Av. Rec | 96.7   | %     |        |        |
|               |                        | LFB Duplicate RPD    | 10.1   | %     |        | 0-25   |
|               | Benzo(a)pyrene         | Lab Fort Blank Amt.  | 100.0  | ug/l  | 40-140 |        |
|               |                        | Lab Fort Blk. Found  | 101.6  | ug/l  |        |        |
|               |                        | Lab Fort Blk. % Rec. | 101.6  | %     |        |        |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl. Fnd | 92.0   | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl %Rec | 92.0   | %     |        | 40-140 |
|               |                        | Lab Fort Blank Range | 9.6    | units |        |        |
|               |                        | Lab Fort Bl. Av. Rec | 96.8   | %     |        |        |
|               | Benzo(b)fluoranthene   | LFB Duplicate RPD    | 9.9    | %     | 40-140 |        |
|               |                        | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |        |
|               |                        | Lab Fort Blk. Found  | 107.4  | ug/l  |        |        |
|               |                        | Lab Fort Blk. % Rec. | 107.4  | %     |        | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl. Fnd | 97.0   | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl %Rec | 97.0   | %     |        | 40-140 |
|               |                        | Lab Fort Blank Range | 10.3   | units |        |        |
|               | Benzo(g,h,i)perylene   | Lab Fort Bl. Av. Rec | 102.2  | %     | 40-140 |        |
|               |                        | LFB Duplicate RPD    | 10.1   | %     |        | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |        |
|               |                        | Lab Fort Blk. Found  | 101.2  | ug/l  |        |        |
|               |                        | Lab Fort Blk. % Rec. | 101.2  | %     |        | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl. Fnd | 91.6   | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl %Rec | 91.6   | %     |        | 40-140 |
|               | Chrysene               | Lab Fort Blank Range | 9.6    | units | 40-140 |        |
|               |                        | Lab Fort Bl. Av. Rec | 96.4   | %     |        |        |
|               |                        | LFB Duplicate RPD    | 9.9    | %     |        | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |        |
|               |                        | Lab Fort Blk. Found  | 101.5  | ug/l  |        |        |
|               |                        | Lab Fort Blk. % Rec. | 101.5  | %     |        | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |        |
|               |                        | Dup Lab Fort Bl. Fnd | 91.9   | ug/l  |        |        |
|               | Dibenzo(a,h)anthracene | Dup Lab Fort Bl %Rec | 91.9   | %     | 40-140 |        |
|               |                        | Lab Fort Blank Range | 9.6    | units |        |        |
|               |                        | Lab Fort Bl. Av. Rec | 96.7   | %     |        |        |
|               |                        | LFB Duplicate RPD    | 9.9    | %     |        | 0-25   |
|               |                        | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |        |
|               |                        | Lab Fort Blk. Found  | 100.9  | ug/l  |        |        |
|               |                        | Lab Fort Blk. % Rec. | 100.9  | %     |        | 40-140 |



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| Sample Id     | Analysis               | QC Analysis          | Values | Units | Limits |
|---------------|------------------------|----------------------|--------|-------|--------|
| LFBLANK-93785 | Dibenzo(a,h)anthracene | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 91.5   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 91.5   | %     | 40-140 |
|               |                        | Lab Fort Blank Range | 9.4    | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 96.2   | %     |        |
|               |                        | LFB Duplicate RPD    | 9.7    | %     | 0-25   |
|               | Fluoranthene           | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                        | Lab Fort Blk. Found  | 101.2  | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 101.2  | %     | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 89.7   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 89.7   | %     | 40-140 |
|               |                        | Lab Fort Blank Range | 11.4   | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 95.4   | %     |        |
|               |                        | LFB Duplicate RPD    | 11.9   | %     | 0-25   |
|               | Fluorene               | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                        | Lab Fort Blk. Found  | 93.2   | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 93.2   | %     | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 82.8   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 82.8   | %     | 40-140 |
|               |                        | Lab Fort Blank Range | 10.3   | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 88.0   | %     |        |
|               |                        | LFB Duplicate RPD    | 11.7   | %     | 0-25   |
|               | Indeno(1,2,3-cd)pyrene | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                        | Lab Fort Blk. Found  | 100.7  | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 100.7  | %     | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 91.0   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 91.0   | %     | 40-140 |
|               |                        | Lab Fort Blank Range | 9.6    | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 95.8   | %     |        |
|               |                        | LFB Duplicate RPD    | 10.0   | %     | 0-25   |
|               | 2-Methylnaphthalene    | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                        | Lab Fort Blk. Found  | 84.4   | ug/l  |        |
|               |                        | Lab Fort Blk. % Rec. | 84.4   | %     | 40-140 |
|               |                        | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                        | Dup Lab Fort Bl. Fnd | 73.0   | ug/l  |        |
|               |                        | Dup Lab Fort Bl %Rec | 73.0   | %     | 40-140 |
|               |                        | Lab Fort Blank Range | 11.4   | units |        |
|               |                        | Lab Fort Bl. Av. Rec | 78.7   | %     |        |
|               |                        | LFB Duplicate RPD    | 14.5   | %     | 0-25   |
|               | Phenanthrene           | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |





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| Sample Id     | Analysis                       | QC Analysis          | Values              | Units | Limits |  |
|---------------|--------------------------------|----------------------|---------------------|-------|--------|--|
| LFBLANK-93785 |                                |                      |                     |       |        |  |
|               | Phenanthrene                   | Lab Fort Blk. Found  | 96.8                | ug/l  |        |  |
|               |                                | Lab Fort Blk. % Rec. | 96.8                | %     | 40-140 |  |
|               |                                | Dup Lab Fort Bl Amt. | 100.0               | ug/l  |        |  |
|               |                                | Dup Lab Fort Bl. Fnd | 85.6                | ug/l  |        |  |
|               |                                | Dup Lab Fort Bl %Rec | 85.6                | %     | 40-140 |  |
|               |                                | Lab Fort Blank Range | 11.2                | units |        |  |
|               |                                | Lab Fort Bl. Av. Rec | 91.2                | %     |        |  |
|               |                                | LFB Duplicate RPD    | 12.3                | %     | 0-25   |  |
|               |                                | Pyrene               | Lab Fort Blank Amt. | 100.0 | ug/l   |  |
|               |                                |                      | Lab Fort Blk. Found | 104.2 | ug/l   |  |
|               | Lab Fort Blk. % Rec.           |                      | 104.2               | %     | 40-140 |  |
|               | Dup Lab Fort Bl Amt.           |                      | 100.0               | ug/l  |        |  |
|               | Dup Lab Fort Bl. Fnd           |                      | 92.6                | ug/l  |        |  |
|               | Dup Lab Fort Bl %Rec           |                      | 92.6                | %     | 40-140 |  |
|               | Lab Fort Blank Range           |                      | 11.6                | units |        |  |
|               | Lab Fort Bl. Av. Rec           |                      | 98.4                | %     |        |  |
|               | LFB Duplicate RPD              |                      | 11.8                | %     | 0-25   |  |
|               | Benzo(k)fluoranthene           |                      | Lab Fort Blank Amt. | 100.0 | ug/l   |  |
|               |                                | Lab Fort Blk. Found  | 103.5               | ug/l  |        |  |
|               |                                | Lab Fort Blk. % Rec. | 103.5               | %     | 40-140 |  |
|               |                                | Dup Lab Fort Bl Amt. | 100.0               | ug/l  |        |  |
|               |                                | Dup Lab Fort Bl. Fnd | 93.3                | ug/l  |        |  |
|               |                                | Dup Lab Fort Bl %Rec | 93.3                | %     | 40-140 |  |
|               |                                | Lab Fort Blank Range | 10.2                | units |        |  |
|               |                                | Lab Fort Bl. Av. Rec | 98.4                | %     |        |  |
|               |                                | LFB Duplicate RPD    | 10.3                | %     | 0-25   |  |
|               |                                | n-Nonane             | Lab Fort Blank Amt. | 100.0 | ug/l   |  |
|               | Lab Fort Blk. Found            |                      | 41.6                | ug/l  |        |  |
|               | Lab Fort Blk. % Rec.           |                      | 41.6                | %     | 30-140 |  |
|               | Dup Lab Fort Bl Amt.           |                      | 100.0               | ug/l  |        |  |
|               | Dup Lab Fort Bl. Fnd           |                      | 33.6                | ug/l  |        |  |
|               | Dup Lab Fort Bl %Rec           |                      | 33.6                | %     | 30-140 |  |
|               | Lab Fort Blank Range           |                      | 8.0                 | units |        |  |
|               | Lab Fort Bl. Av. Rec           |                      | 37.6                | %     |        |  |
|               | LFB Duplicate RPD              |                      | 21.2                | %     |        |  |
|               | Naphthalene Aliphatic Fraction |                      | Lab Fort Blank Amt. | 76.6  | ug/l   |  |
|               |                                | Lab Fort Blk. Found  | 0.0                 | ug/l  |        |  |
|               |                                | Lab Fort Blk. % Rec. | 0.0                 | %     | 0-5    |  |
|               |                                | Dup Lab Fort Bl Amt. | 66.0                | ug/l  |        |  |
|               |                                | Dup Lab Fort Bl. Fnd | 0.0                 | ug/l  |        |  |
|               |                                | Dup Lab Fort Bl %Rec | 0.0                 | %     | 0-5    |  |
|               |                                | Lab Fort Blank Range | 0.0                 | units |        |  |
|               |                                | Lab Fort Bl. Av. Rec | 0.0                 | %     |        |  |



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| Sample Id     | Analysis                               | QC Analysis          | Values | Units | Limits |
|---------------|--|----------------------|--------|-------|--------|
| LFBLANK-93785 | 2-Methylnaphthalene Aliphatic Fraction | Lab Fort Blank Amt.  | 84.4   | ug/l  |        |
|               |  | Lab Fort Blk. Found  | 0.0    | ug/l  |        |
|               |  | Lab Fort Blk. % Rec. | 0.0    | %     | 0-5    |
|               |  | Dup Lab Fort Bl Amt. | 73.0   | ug/l  |        |
|               |  | Dup Lab Fort Bl. Fnd | 0.0    | ug/l  |        |
|               |  | Dup Lab Fort Bl %Rec | 0.0    | %     | 0-5    |
|               |  | Lab Fort Blank Range | 0.0    | units |        |
|               |  | Lab Fort Bl. Av. Rec | 0.0    | %     |        |
|               | Unadjusted C11-C22 Aromatics           | Lab Fort Blank Amt.  | 1700.0 | ug/l  |        |
|               |  | Lab Fort Blk. Found  | 1970.8 | ug/l  |        |
|               |  | Lab Fort Blk. % Rec. | 115.9  | %     | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 1700.0 | ug/l  |        |
|               |  | Dup Lab Fort Bl. Fnd | 1768.3 | ug/l  |        |
|               |  | Dup Lab Fort Bl %Rec | 104.0  | %     | 40-140 |
|               |  | Lab Fort Blank Range | 11.9   | units |        |
|               |  | Lab Fort Bl. Av. Rec | 109.9  | %     |        |
|               |  | LFB Duplicate RPD    | 10.8   | %     | 0-25   |
|               | C9-C18 Aliphatics                      | Lab Fort Blank Amt.  | 600.0  | ug/l  |        |
|               |  | Lab Fort Blk. Found  | 481.2  | ug/l  |        |
|               |  | Lab Fort Blk. % Rec. | 80.2   | %     | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 600.0  | ug/l  |        |
|               |  | Dup Lab Fort Bl. Fnd | 414.5  | ug/l  |        |
|               |  | Dup Lab Fort Bl %Rec | 69.0   | %     | 40-140 |
|               |  | Lab Fort Blank Range | 11.1   | units |        |
|               |  | Lab Fort Bl. Av. Rec | 74.6   | %     |        |
|               |  | LFB Duplicate RPD    | 14.9   | %     | 0-25   |
|               | C19-C36 Aliphatics                     | Lab Fort Blank Amt.  | 800.0  | ug/l  |        |
|               |  | Lab Fort Blk. Found  | 861.5  | ug/l  |        |
|               |  | Lab Fort Blk. % Rec. | 107.6  | %     | 40-140 |
|               |  | Dup Lab Fort Bl Amt. | 800.0  | ug/l  |        |
|               |  | Dup Lab Fort Bl. Fnd | 766.8  | ug/l  |        |
|               |  | Dup Lab Fort Bl %Rec | 95.8   | %     | 40-140 |
|               |  | Lab Fort Blank Range | 11.8   | units |        |
|               |  | Lab Fort Bl. Av. Rec | 101.7  | %     |        |
|               |  | LFB Duplicate RPD    | 11.6   | %     | 0-25   |



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QC Batch Number: GC/PID-9182

| Sample Id     | Analysis                 | QC Analysis          | Values | Units | Limits |
|---------------|--------------------------|----------------------|--------|-------|--------|
| 09B09995      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 97.0   | %     | 70-130 |
| 09B09996      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 95.2   | %     | 70-130 |
| 09B09997      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 94.7   | %     | 70-130 |
| 09B09998      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 94.0   | %     | 70-130 |
| 09B09999      | 2,5-Dibromotoluene (PID) | Sur. Recovery (PID)  | 97.7   | %     | 70-130 |
| BLANK-131538  | Benzene                  | Blank                | <1.0   | ug/l  |        |
|               | Ethyl Benzene            | Blank                | <1.0   | ug/l  |        |
|               | Naphthalene              | Blank                | <10.0  | ug/l  |        |
|               | Toluene                  | Blank                | <1.0   | ug/l  |        |
|               | o-Xylene                 | Blank                | <1.0   | ug/l  |        |
|               | m/p-Xylene               | Blank                | <2.0   | ug/l  |        |
|               | C9-C10 Aromatics         | Blank                | <100.  | ug/l  |        |
|               | MTBE                     | Blank                | <1.0   | ug/l  |        |
| LFBLANK-93783 | Benzene                  | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                          | Lab Fort Blk. Found  | 102.0  | ug/l  |        |
|               |                          | Lab Fort Blk. % Rec. | 102.0  | %     | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                          | Dup Lab Fort Bl. Fnd | 99.3   | ug/l  |        |
|               |                          | Dup Lab Fort Bl %Rec | 99.3   | %     | 70-130 |
|               |                          | Lab Fort Blank Range | 2.7    | units |        |
|               |                          | Lab Fort Bl. Av. Rec | 100.6  | %     |        |
|               |                          | LFB Duplicate RPD    | 2.6    | %     | 0-25   |
|               | Ethyl Benzene            | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                          | Lab Fort Blk. Found  | 97.6   | ug/l  |        |
|               |                          | Lab Fort Blk. % Rec. | 97.6   | %     | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                          | Dup Lab Fort Bl. Fnd | 95.0   | ug/l  |        |
|               |                          | Dup Lab Fort Bl %Rec | 95.0   | %     | 70-130 |
|               |                          | Lab Fort Blank Range | 2.6    | units |        |
|               |                          | Lab Fort Bl. Av. Rec | 96.3   | %     |        |
|               |                          | LFB Duplicate RPD    | 2.6    | %     | 0-25   |
|               | Naphthalene              | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |                          | Lab Fort Blk. Found  | 95.2   | ug/l  |        |
|               |                          | Lab Fort Blk. % Rec. | 95.2   | %     | 70-130 |
|               |                          | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |                          | Dup Lab Fort Bl. Fnd | 96.1   | ug/l  |        |
|               |                          | Dup Lab Fort Bl %Rec | 96.1   | %     | 70-130 |



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QC Batch Number: GC/PID-9182

| Sample Id     | Analysis    | QC Analysis          | Values | Units | Limits |
|---------------|-------------|----------------------|--------|-------|--------|
| LFBLANK-93783 | Naphthalene | Lab Fort Blank Range | 0.8    | units |        |
|               |             | Lab Fort Bl. Av. Rec | 95.6   | %     |        |
|               |             | LFB Duplicate RPD    | 0.9    | %     | 0-25   |
|               | Toluene     | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |             | Lab Fort Blk. Found  | 98.7   | ug/l  |        |
|               |             | Lab Fort Blk. % Rec. | 98.7   | %     | 70-130 |
|               |             | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |             | Dup Lab Fort Bl. Fnd | 96.0   | ug/l  |        |
|               |             | Dup Lab Fort Bl %Rec | 96.0   | %     | 70-130 |
|               |             | Lab Fort Blank Range | 2.7    | units |        |
|               |             | Lab Fort Bl. Av. Rec | 97.3   | %     |        |
|               |             | LFB Duplicate RPD    | 2.7    | %     | 0-25   |
|               | o-Xylene    | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |             | Lab Fort Blk. Found  | 95.5   | ug/l  |        |
|               |             | Lab Fort Blk. % Rec. | 95.5   | %     | 70-130 |
|               |             | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |             | Dup Lab Fort Bl. Fnd | 93.3   | ug/l  |        |
|               |             | Dup Lab Fort Bl %Rec | 93.3   | %     | 70-130 |
|               |             | Lab Fort Blank Range | 2.2    | units |        |
|               |             | Lab Fort Bl. Av. Rec | 94.4   | %     |        |
|               |             | LFB Duplicate RPD    | 2.3    | %     | 0-25   |
|               | m/p-Xylene  | Lab Fort Blank Amt.  | 200.0  | ug/l  |        |
|               |             | Lab Fort Blk. Found  | 196.0  | ug/l  |        |
|               |             | Lab Fort Blk. % Rec. | 98.0   | %     | 70-130 |
|               |             | Dup Lab Fort Bl Amt. | 200.0  | ug/l  |        |
|               |             | Dup Lab Fort Bl. Fnd | 190.0  | ug/l  |        |
|               |             | Dup Lab Fort Bl %Rec | 95.0   | %     | 70-130 |
|               |             | Lab Fort Blank Range | 3.0    | units |        |
|               |             | Lab Fort Bl. Av. Rec | 96.5   | %     |        |
|               |             | LFB Duplicate RPD    | 3.1    | %     | 0-25   |
|               | MTBE        | Lab Fort Blank Amt.  | 100.0  | ug/l  |        |
|               |             | Lab Fort Blk. Found  | 104.0  | ug/l  |        |
|               |             | Lab Fort Blk. % Rec. | 104.0  | %     | 70-130 |
|               |             | Dup Lab Fort Bl Amt. | 100.0  | ug/l  |        |
|               |             | Dup Lab Fort Bl. Fnd | 104.0  | ug/l  |        |
|               |             | Dup Lab Fort Bl %Rec | 104.0  | %     | 70-130 |
|               |             | Lab Fort Blank Range | 0.0    | units |        |
|               |             | Lab Fort Bl. Av. Rec | 104.0  | %     |        |
|               |             | LFB Duplicate RPD    | 0.0    | %     | 0-25   |



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QC Batch Number: ICP-21529

| Sample Id     | Analysis | QC Analysis          | Values   | Units | Limits |
|---------------|----------|----------------------|----------|-------|--------|
| BLANK-131569  | Lead     | Blank                | <0.0075  | mg/l  |        |
| LFBLANK-93816 | Lead     | Lab Fort Blank Amt.  | 0.5000   | mg/l  |        |
|               |          | Lab Fort Blk. Found  | 0.5006   | mg/l  |        |
|               |          | Lab Fort Blk. % Rec. | 100.1300 | %     | 85-115 |
|               |          | Dup Lab Fort Bl Amt. | 0.5000   | mg/l  |        |
|               |          | Dup Lab Fort Bl. Fnd | 0.5053   | mg/l  |        |
|               |          | Dup Lab Fort Bl %Rec | 101.0699 | %     | 85-115 |
|               |          | Lab Fort Blank Range | 0.9400   | units |        |
|               |          | Lab Fort Bl. Av. Rec | 100.6000 | %     |        |
|               |          | LFB Duplicate RPD    | 0.9343   | %     | 0-20   |



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### QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

|                       |  |
|-----------------------|--|
| QC BATCH NUMBER       | This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.  |
| LIMITS                | Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined. |
| Sample Amount         | Amount of analyte found in a sample.   |
| Blank                 | Method Blank that has been taken through all the steps of the analysis.  |
| LFBLANK               | Laboratory Fortified Blank (a control sample)  |
| STDADD                | Standard Added (a laboratory control sample)   |
| Matrix Spk Amt Added  | Amount of analyte spiked into a sample   |
| MS Amt Measured       | Amount of analyte found including amount that was spiked   |
| Matrix Spike % Rec.   | % Recovery of spiked amount in sample.   |
| Duplicate Value       | The result from the Duplicate analysis of the sample.  |
| Duplicate RPD         | The Relative Percent Difference between two Duplicate Analyses.  |
| Surrogate Recovery    | The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.  |
| Sur. Recovery (ELCD)  | Surrogate Recovery on the Electrolytic Conductivity Detector.  |
| Sur. Recovery (PID)   | Surrogate Recovery on the Photoionization Detector.  |
| Standard Measured     | Amount measured for a laboratory control sample  |
| Standard Amt Added    | Known value for a laboratory control sample  |
| Standard % Recovery   | % recovered for a laboratory control sample with a known value.  |
| Lab Fort Blank Amt    | Laboratory Fortified Blank Amount Added  |
| Lab Fort Blk. Found   | Laboratory Fortified Blank Amount Found  |
| Lab Fort Blk % Rec    | Laboratory Fortified Blank % Recovered   |
| Dup Lab Fort Bl Amt   | Duplicate Laboratory Fortified Blank Amount Added  |
| Dup Lab Fort Bl Fnd   | Duplicate Laboratory Fortified Blank Amount Found  |
| Dup Lab Fort Bl % Rec | Duplicate Laboratory Fortified Blank % Recovery  |
| Lab Fort Blank Range  | Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).  |
| Lab Fort Bl. Av. Rec. | Laboratory Fortified Blank Average Recovery  |
| Duplicate Sample Amt  | Sample Value for Duplicate used with Matrix Spike Duplicate  |
| MSD Amount Added      | Matrix Spike Duplicate Amount Added (Spiked)   |
| MSD Amt Measured      | Matrix Spike Duplicate Amount Measured   |
| MSD % Recovery        | Matrix Spike Duplicate % Recovery  |
| MSD Range             | Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries   |

**MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM**

|  |                                |
|--|--------------------------------|
| Laboratory Name: <b>CON-TEST Analytical Laboratory</b> | Project #: <u>LIMIT -24377</u> |
| Project Location: <u>235 TYLER ST., PITTSFIELD, MA</u> | MADEP RTN <sup>1</sup> :       |

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

09B09995 - 09B09999

Sample Matrices:  Groundwater  Soil/Sediment  Drinking Water  Other: \_\_\_\_\_

|  |           |           |   |   |                        |
|--|-----------|-----------|---|---|------------------------|
| <b>MCP SW-846 Methods Used</b>   | 8260B ( ) | 8151A ( ) | 8330 ( )                                | 6010B <input checked="" type="checkbox"/> | 7470A/1A ( )           |
|  | 8270C ( ) | 8081A ( ) | VPH <input checked="" type="checkbox"/> | 6020 ( )                                  | 9014M <sup>2</sup> ( ) |
| As specified in MADEP Compendium of Analytical Methods.<br>(check all that apply)  | 8082 ( )  | 8021B ( ) | EPH <input checked="" type="checkbox"/> | 7000 S <sup>3</sup> ( )                   | 7196A ( )              |
| 1 List Release Tracking Number (RTN), if known<br>2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method<br>3 S – SW-846 Methods 7000 Series List individual method and analyte. |           |           |   |   |                        |

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

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

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

|          |  |  |
|----------|--|--|
| <b>E</b> | Were all analytical QC performance standards and recommendations for the specified methods achieved? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup> |
| <b>F</b> | Were results for all analyte-list compounds/elements for the specified method(s) reported?           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup> |

<sup>1</sup>All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

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

|                                      |   |
|--------------------------------------|---|
| Signature: <u>Tod Kopyscinski</u>    | Position: <b>Director of Operations</b> |
| Printed Name: <b>Tod Kopyscinski</b> | Date: <u>4-8-09</u>                     |

**Frac. Check Gilson Fractionator (FCS)**

Silica Lot: S212-44 Vendor: PHENOMENEX  
 Frac Check Lot: 120408 PJG Amount of DCM collected: 5000 uL  
 Hexane Lot: 48130 Amount of Hexane collected: 1800 uL  
 DCM Lot: CX673  
 Acetone Lot: 48268 Data File: 120408 B011/B012

| Compound                   | Conc. (ppm) | 2000ul | % REC   | Limits |
|----------------------------|-------------|--------|---------|--------|
| Naphthalene                | 50          | 46.803 | 94%     | 40-140 |
| 2-Methylnaphthalene        | 50          | 49.892 | 100%    | 40-140 |
| Acenaphthalene             | 50          | 51.654 | 103%    | 40-140 |
| Acenaphthene               | 50          | 50.707 | 101%    | 40-140 |
| Fluorene                   | 50          | 51.992 | 104%    | 40-140 |
| Phenanthrene               | 50          | 51.620 | 103%    | 40-140 |
| Anthracene                 | 50          | 53.824 | 108%    | 40-140 |
| o-Terphenyl (surr)         | 50          | 53.325 | 107%    | 40-140 |
| Fluoranthene               | 50          | 51.318 | 103%    | 40-140 |
| Pyrene                     | 50          | 53.427 | 107%    | 40-140 |
| Benzo(a)anthracene         | 50          | 49.693 | 99%     | 40-140 |
| Chrysene                   | 50          | 52.239 | 104%    | 40-140 |
| Benzo(b)fluoranthene       | 50          | 51.942 | 104%    | 40-140 |
| Benzo(k)fluoranthene       | 50          | 50.335 | 101%    | 40-140 |
| Benzo(a)pyrene             | 50          | 49.109 | 98%     | 40-140 |
| Indeno(123cd)pyrene        | 50          | 48.503 | 97%     | 40-140 |
| Dibenzo(ah)anthracene      | 50          | 49.190 | 98%     | 40-140 |
| Benzo(ghi)perylene         | 50          | 49.342 | 99%     | 40-140 |
| C9                         | 50          | 37.246 | 74%     | 30-140 |
| C10                        | 50          | 39.046 | 78%     | 40-140 |
| C12                        | 50          | 42.204 | 84%     | 40-140 |
| C14                        | 50          | 45.294 | 91%     | 40-140 |
| C16                        | 50          | 45.650 | 91%     | 40-140 |
| C18                        | 50          | 44.744 | 89%     | 40-140 |
| C19                        | 50          | 44.757 | 90%     | 40-140 |
| C20                        | 50          | 43.918 | 88%     | 40-140 |
| 1-Chloro-octadecane (surr) | 50          | 41.800 | 84%     | 40-140 |
| C22                        | 50          | 45.928 | 92%     | 40-140 |
| C24                        | 50          | 44.108 | 88%     | 40-140 |
| C26                        | 50          | 45.847 | 92%     | 40-140 |
| C28                        | 50          | 44.466 | 89%     | 40-140 |
| C30                        | 50          | 43.350 | 87%     | 40-140 |
| C36                        | 50          | 48.193 | 96%     | 40-140 |
| Fractionation Surrogates   |             |        |         |        |
| 2-Fluorobiphenyl           | 50          | 49.032 | 98%     | 40-140 |
| 2-Bromonaphthalene         | 50          | 49.386 | 99%     | 40-140 |
| Aliphatic Bleed thru       |             |        | % (<5%) |        |
| Naphthalene                | 0           |        | 0.000   |        |
| 2-Methylnaphthalene        | 0           |        | 0.000   |        |





Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com  
 www.contestlabs.com

**CHAIN OF CUSTODY RECORD**

39 SPRUCE ST, 2ND FLOOR  
 EAST LONGMEADOW, MA 01028

Company Name: REC  
 Address: 650 Suffolk St.

Telephone: 978 970-5700

Attention: Tom Biolsi

Project # 11M1-24377

Project Location: 235 Tyler St. Pittsfield MA

Client PO # \_\_\_\_\_

Sampled By: H. Lizza

DATA DELIVERY (check one):  
 FAX  EMAIL  WEBSITE CLIENT  
 Fax #: \_\_\_\_\_  
 Email: TBiolsi@contestlabs.com  
 Format:  EXCEL  PDF  GIS KEY  
 OTHER \_\_\_\_\_

Proposal Provided? (For Billing purposes)  yes  no

State Form Required?  yes  no

| Field ID | Sample Description | Lab # | Start Date/Time | Stop Date/Time | Composite | Grab | Matrix Code | Conc. Code | Analysis Requested                           | # of containers |
|----------|--------------------|-------|-----------------|----------------|-----------|------|-------------|------------|--|-----------------|
|          | MW-1               | 09995 | 3/31/09         | 1010           |           |      | GD          |            | VPH<br>EPH<br>Total lead<br>Dissolved lead * | 4               |
|          | MW-2               | 09996 |                 | 1130           |           |      | GD          |            |  | 4               |
|          | MW-3               | 09997 |                 | 1310           |           |      | GD          |            |  | 4               |
|          | DUP-1              | 09998 |                 |                |           |      | GD          |            |  | 4               |
|          | Tap Blank          | 09999 |                 |                |           |      |             |            |  | 4               |

Laboratory Comments: \* Hold Dissolved lead

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

Received by: (signature) [Signature] Date/Time: 3/31/09 1600

Received by: (signature) [Signature] Date/Time: 3/31/09 1600

Relinquished by: (signature) [Signature] Date/Time: 3/31/09 1704

Received by: (signature) [Signature] Date/Time: 3/31/09 1704

Turnaround \*\*  
 7-Day  
 10-Day  
 Other \_\_\_\_\_  
**RUSH \***  
 \*24-Hr  \*48-Hr  
 \*72-Hr  \*4-Day  
 \* Require lab approval

Detection Limit Requirements  
 Regulations? GW-2/GW-3

Data Enhancement Project/RCP?  Y  N  
 Special Requirements or DL's: \_\_\_\_\_

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

Preservation Codes:  
 I = lead  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium bisulfate  
 O = Other

X = Na hydroxide  
 T = Na thiosulfate

Client Comments: \_\_\_\_\_

\*\* TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

www.contestlabs.com



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

### Sample Receipt Checklist

CLIENT NAME: TRE-LOW RECEIVED BY: CEC DATE: 3/31/09

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

2) Does the chain agree with the samples?  Yes  No  
If not, explain:

3) Are all the samples in good condition?  Yes  No  
If not, explain:

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

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

Temperature °C by Temp blank 3.0 Temperature °C by Temp gun \_\_\_\_\_

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

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

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

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

8) Location where samples are stored:

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

### Containers sent in to Con-Test

|                                | # of containers |                      | # of containers |
|--------------------------------|-----------------|----------------------|-----------------|
| 1 Liter Amber                  | 8               | 8 oz clear jar       |                 |
| 500 mL Amber                   |                 | 4 oz clear jar       |                 |
| 250 mL Amber (8oz amber)       |                 | 2 oz clear jar       |                 |
| 1 Liter Plastic                |                 | Other glass jar      |                 |
| 500 mL Plastic                 |                 | Plastic Bag / Ziploc |                 |
| 250 mL plastic                 | 88              | Air Cassette         |                 |
| 40 mL Vial - type listed below |                 | Brass Sleeves        |                 |
| Colisure / bacteria bottle     |                 | Tubes                |                 |
| Dissolved Oxygen bottle        |                 | Summa Cans           |                 |
| Flashpoint bottle              |                 | Regulators           |                 |
| Encore                         |                 | Other                |                 |

Laboratory Comments: pH < 7

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_  
# Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_ Time and Date Frozen: \_\_\_\_\_  
# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

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

**APPENDIX E**

**BORING LOGS,  
WELL CONSTRUCTION DIAGRAMS, AND  
GROUNDWATER SAMPLE LOGS**



Wannalancit Mills  
650 Suffolk Street  
Lowell MA  
Telephone: 978-970-5600  
Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 235 Tyler Street / 158037.0020 SCREEN TYPE/SLOT 0.010 - inch PVC Screen  
 BORING/WELL NUMBER B-1 / MW-1 FILTER PACK TYPE Sand  
 TRC GEOLOGIST H. Rizza SEAL TYPE Bentonite  
 DRILLING CONTRACTOR/FOREMAN Geosearch/John / Rodney DEPTH TO WATER (Approximate Feet) 10  
 DATE DRILLED 3/23/09 TOTAL DEPTH (Feet) 18  
 LOCATION NW side of Building GROUND ELEVATION (Feet, NAVD 88) NA  
 SAMPLING METHOD 2' Split Spoon REFERENCE ELEVATION (Feet, NAVD 88) NA  
 DRILLING METHOD HSA / CME 75  
 NOTES Sampled for VPH, EPH, PCBs and Lead.

| DEPTH (ft. BGL) | BLOW COUNTS      | PEN/REC (INCHES) | CORE # | TRC ID | GRAPHIC LOG | LITHOLOGIC DESCRIPTION  | Field Testing (ppm) | SAMPLE ID/ TIME                   | WELL DIAGRAM   |
|-----------------|------------------|------------------|--------|--------|-------------|---|---------------------|-----------------------------------|--|
| 1               | 5<br>6<br>5<br>2 | 24/14            |        |        |             | 4" Brown to dark brown TOPSOIL.<br>6" Brown fine SAND, some medium sand, a few cobbles (quartz).                                      | 0.0                 | MW-1 (1-3) (2)<br>0925            | <p>Concrete Seal/Roadbox<br/>2-inch PVC Riser in Sand<br/>Bentonite Seal</p> <p>2-inch PVC Riser in Sand</p> <p>0.010 Slotted PVC Screen in Sand</p> |
| 2               | 2<br>2<br>2      | 24/8             |        |        |             | 2" White fine ASH with coal bits.<br>2" Brown medium SAND, trace gravel.<br>4" Brown fine SAND, little gravel, trace red medium sand. | 0.0                 |                                   |  |
| 3               | 2<br>2           |                  |        |        |             | 4" Brown fine SAND, a few cobbles.  | 0.0                 |                                   |  |
| 4               | 5<br>6           | 24/15            |        |        |             | 5" Brown to dark brown fine to medium SAND with trace coal bits.<br>1" Pulverized ROCK (quartz).                                      | 0.0                 |                                   |  |
| 5               | 4<br>3           |                  |        |        |             | 9" Brown medium to coarse SAND, a few cobbles, trace medium gravel, rock at bottom.   | 0.0                 |                                   |  |
| 6               | 5<br>4           | 24/1             |        |        |             | Rock in tip, 1" of recovery.<br>1" Brown fine SAND, trace fine gravel.  | 0.0                 |                                   |  |
| 7               | 6<br>4           |                  |        |        |             |   | 0.0                 |                                   |  |
| 8               |                  | 24/7             |        |        |             | 1" White ASH.<br>4" Brown fine to medium SAND with trace coal.  | 0.0                 | MW-1 (8-10) (9)<br>0945           |  |
| 9               |                  |                  |        |        |             |   | 0.0                 |                                   |  |
| 10              | 4<br>3           | 24/10            |        |        |             | 10" Brown SAND and GRAVEL, trace orange coloration, saturated.  | 0.0                 | MW-1 (10-12) (11)<br>0950<br>HOLD |  |
| 11              | 2<br>4           |                  |        |        |             |   | 0.0                 |                                   |  |
| 12              |                  | 24/12            |        |        |             | 12" Brown medium to coarse SAND and fine GRAVEL, trace orange coloration, rock at bottom, saturated.                                  | 0.0                 |                                   |  |
| 13              |                  |                  |        |        |             |   | 0.0                 |                                   |  |
| 14              | 13<br>12         | 24/15            |        |        |             | 8" Brown fine to coarse SAND and fine GRAVEL.   | 0.0                 |                                   |  |
| 15              | 10<br>10         |                  |        |        |             | 3" Pulverized ROCK.<br>4" Brown-tan fine SAND with cobble.  | 0.0                 |                                   |  |
| 16              | 10<br>7          | 24/18            |        |        |             | 6" Brown fine SAND and fine GRAVEL.   | 0.0                 |                                   |  |
| 17              | 5<br>7           |                  |        |        |             | 12" Tan fine SAND with medium GRAVEL, trace orange coloration.  | 0.0                 |                                   |  |
| 18              |                  |                  |        |        |             | End of Boring @ 18 feet   |                     |                                   |  |



Wannalancit Mills  
 650 Suffolk Street  
 Lowell MA  
 Telephone: 978-970-5600  
 Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 235 Tyler Street / 158037.0020 SCREEN TYPE/SLOT 0.010 - inch PVC Screen  
 BORING/WELL NUMBER B-2 / MW-2 FILTER PACK TYPE Sand  
 TRC GEOLOGIST H. Rizza SEAL TYPE Bentonite  
 DRILLING CONTRACTOR/FOREMAN Geosearch/John / Rodney DEPTH TO WATER (Approximate Feet) 10  
 DATE DRILLED 3/23/09 TOTAL DEPTH (Feet) 18  
 LOCATION East side of Building GROUND ELEVATION (Feet, NAVD 88) NA  
 SAMPLING METHOD 2' Split Spoon REFERENCE ELEVATION (Feet, NAVD 88) NA  
 DRILLING METHOD HSA / CME 75  
 NOTES Sampled for VPH, EPH, PCBs and Lead.

| DEPTH (ft. BGL) | BLOW COUNTS      | PEN/REC (INCHES) | CORE # | TRC ID | GRAPHIC LOG | LITHOLOGIC DESCRIPTION  | Field Testing (ppm)     | SAMPLE ID/TIME         | WELL DIAGRAM   |
|-----------------|------------------|------------------|--------|--------|-------------|---|-------------------------|------------------------|--|
| 1               | 5<br>4<br>4<br>3 | 24/15            |        |        |             | 5" Brown fine SAND, with topsoil at surface.<br>3" Brown fine SAND, trace ash and brick.<br>7" Brown fine to medium SAND, trace gravel and brick. | 0.0                     | MW-2 (1-3) (2)<br>1110 | <p>Concrete Seal/Roadbox<br/>2-inch PVC Riser in Sand<br/>Bentonite Seal</p> <p>2-inch PVC Riser in Sand</p> <p>0.010 Slotted PVC Screen in Sand</p> |
| 2               | 2                | 24/10            |        |        |             | 10" Brown fine SAND, little gravel.   | 0.0                     |                        |  |
| 3               | 2<br>2<br>3      |                  |        |        |             |   | 0.0                     |                        |  |
| 4               | 7                | 24/11            |        |        |             | 7" Brown fine SAND, little gravel.  |                         |                        |  |
| 5               | 8<br>9<br>9      |                  |        |        |             | 1" ROCK<br>3" Brown medium to coarse SAND, some fine gravel.  | 0.0                     |                        |  |
| 6               | 15               | 24/11            |        |        |             | 2" Brown fine SAND, trace gravel.<br>9" Brown-Tan medium to coarse SAND and GRAVEL with large gravel.   | 0.0                     |                        |  |
| 7               | 8<br>6<br>6      |                  |        |        |             | 3" White ASH.<br>3" Brown fine to medium SAND, trace fine gravel.<br>8" Tan-gray coarse SAND and fine GRAVEL.                                     | 0.0                     |                        |  |
| 8               | 8                | 24/14            |        |        |             |   | MW-2 (8-10) (9)<br>1130 |                        |  |
| 9               | 6<br>5<br>4      |                  |        |        |             |   | 0.0                     |                        |  |
| 10              | 3                | 24/18            |        |        |             | 18" Brown fine SAND and SILT, moist to wet.   | 0.0                     |                        |  |
| 11              | 4<br>3<br>5      |                  |        |        |             |   | 0.0                     |                        |  |
| 12              | 7                | 24/18            |        |        |             | 9" Brown fine SAND and SILT, saturated.   |                         |                        |  |
| 13              | 7<br>8<br>9      |                  |        |        |             | 8" Brown-gray medium to coarse SAND and fine GRAVEL, saturated.   | 0.0                     |                        |  |
| 14              | 2                | 24/12            |        |        |             | 12" Brown to tan fine to coarse SAND and fine GRAVEL, saturated.  | 0.0                     |                        |  |
| 15              | 5<br>7<br>5      |                  |        |        |             |   | 0.0                     |                        |  |
| 16              | 9                | 24/18            |        |        |             | 18" Brown to tan to gray fine to medium SAND and fine GRAVEL.   | 0.0                     |                        |  |
| 17              | 9<br>5<br>5      |                  |        |        |             |   | 0.0                     |                        |  |
| 18              |                  |                  |        |        |             | End of Boring @ 18 feet   |                         |                        |  |



Wannalancit Mills  
 650 Suffolk Street  
 Lowell MA  
 Telephone: 978-970-5600  
 Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 235 Tyler Street / 158037.0020 SCREEN TYPE/SLOT 0.010 - inch PVC Screen  
 BORING/WELL NUMBER B-3 / MW-3 FILTER PACK TYPE Sand  
 TRC GEOLOGIST H. Rizza SEAL TYPE Bentonite  
 DRILLING CONTRACTOR/FOREMAN Geosearch/John / Rodney DEPTH TO WATER (Approximate Feet) 18  
 DATE DRILLED 3/23/09 TOTAL DEPTH (Feet) 26  
 LOCATION Southwest side of Building GROUND ELEVATION (Feet, NAVD 88) NA  
 SAMPLING METHOD 2' Split Spoon REFERENCE ELEVATION (Feet, NAVD 88) NA  
 DRILLING METHOD HSA / CME 75  
 NOTES Sampled for VPH, EPH, PCBs and Lead.

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | TRC ID | GRAPHIC LOG | LITHOLOGIC DESCRIPTION  | Field Testing (ppm) | SAMPLE ID/TIME                            | WELL DIAGRAM   |
|-----------------|-------------|------------------|--------|--------|-------------|---|---------------------|---|--|
| 1               | 4           | 24/12            |        |        |             | 1" ASPHALT  | 0.0                 | MW-3 (1-3) (2)<br>1250<br>Dup-1 (1-3) (2) | <p>Concrete Seal/Roadbox<br/>         2-inch PVC Riser in Sand<br/>         Bentonite Seal</p> <p>2-inch PVC Riser in Sand</p> <p>0.010 Slotted PVC Screen in Sand</p> |
| 1               | 13          |                  |        |        |             | 9" Brown fine to medium SAND, some fine gravel.   |                     |   |  |
| 2               | 6           |                  |        |        |             | 2" Pulverized ROCK, piece of clay (pipe).   |                     |   |  |
| 2               | 4           | 24/6             |        |        |             | 6" Tan to whitish fine to medium SAND, little brick, pulverized rock at bottom with trace coal bits.              | 0.0                 |   |  |
| 3               | 4           |                  |        |        |             | 11" Brown fine SAND, some gravel, black mixed @ top 2" (possible coal), wire with cloth wrapping mixed in.        | 0.0                 |   |  |
| 3               | 5           |                  |        |        |             | 10" Brown fine to medium SAND, some gravel, trace black at 8".  | 0.0                 |   |  |
| 4               | 6           |                  |        |        |             | 9" Brown to reddish fine SAND, little gravel, trace white fine sand at top.                                       | 0.0                 |   |  |
| 4               | 4           | 24/11            |        |        |             | 5" Brown fine to medium SAND, some gravel, rock at bottom.  | 0.0                 |   |  |
| 5               | 8           |                  |        |        |             | 11" Brown fine to medium SAND, some gravel, trace white fine sand at 9", trace reddish color at top, slight odor. | 0.2                 |   |  |
| 5               | 8           |                  |        |        |             | 9" Brown fine to medium SAND, some gravel.  | 0.0                 |   |  |
| 6               | 8           | 24/10            |        |        |             | 5" Brown-tan SAND, some gravel, moist at bottom.  | 0.0                 |   |  |
| 6               | 6           |                  |        |        |             | 18" Tan-gray medium to coarse SAND, some gravel.  | 0.0                 |   |  |
| 7               | 7           | 24/14            |        |        |             | 10" Brown fine to medium SAND, some medium gravel, wet at 18'.  | 0.0                 |   |  |
| 7               | 12          |                  |        |        |             | 18-20' No Recovery  | 0.0                 |   |  |
| 8               | 7           | 24/11            |        |        |             | 18" Tan-gray fine to coarse SAND and GRAVEL, saturated.   | 7.0                 | MW-3 (10-12) (11)<br>1330                 |  |
| 8               | 6           |                  |        |        |             | 8" Gray to dark gray coarse SAND, trace gravel.   | 0.0                 |   |  |
| 9               | 2           | 24/14            |        |        |             | 7" Tan SILT.  | 0.0                 |   |  |
| 9               | 5           |                  |        |        |             | Tan SILT.   | 0.0                 |   |  |
| 9               | 9           | 24/18            |        |        |             | End of Boring @ 26 feet   | 0.0                 |   |  |
| 10              | 9           |                  |        |        |             |   | 0.0                 |   |  |
| 10              | 7           | 24/11            |        |        |             |   | 0.0                 |   |  |
| 11              | 5           |                  |        |        |             |   | 0.0                 |   |  |
| 11              | 6           | 24/14            |        |        |             |   | 0.0                 |   |  |
| 12              | 6           |                  |        |        |             |   | 0.0                 |   |  |
| 12              | 9           | 24/10            |        |        |             |   | 0.0                 |   |  |
| 13              | 7           |                  |        |        |             |   | 0.0                 |   |  |
| 13              | 9           | 24/14            |        |        |             |   | 0.0                 |   |  |
| 14              | 6           |                  |        |        |             |   | 0.0                 |   |  |
| 14              | 6           | 24/18            |        |        |             |   | 0.0                 |   |  |
| 15              | 5           |                  |        |        |             |   | 0.0                 |   |  |
| 15              | 4           | 24/18            |        |        |             |   | 0.0                 |   |  |
| 16              | 5           |                  |        |        |             |   | 0.0                 |   |  |
| 16              | 6           | 24/10            |        |        |             |   | 0.0                 |   |  |
| 17              | 14          |                  |        |        |             |   | 0.0                 |   |  |
| 17              | 11          | 24/0             |        |        |             |   | 0.0                 |   |  |
| 18              | 12          |                  |        |        |             |   | 0.0                 |   |  |
| 18              | 12          | 24/0             |        |        |             |   | 0.0                 |   |  |
| 19              | 7           |                  |        |        |             |   | 0.0                 |   |  |
| 19              | 8           | 24/18            |        |        |             |   | 0.0                 |   |  |
| 20              | 12          |                  |        |        |             |   | 0.0                 |   |  |
| 20              | 8           | 24/18            |        |        |             |   | 0.0                 |   |  |
| 21              | 9           |                  |        |        |             |   | 0.0                 |   |  |
| 21              | 12          | 24/15            |        |        |             |   | 0.0                 |   |  |
| 22              | 9           |                  |        |        |             |   | 0.0                 |   |  |
| 22              | 12          | 24/15            |        |        |             |   | 0.0                 |   |  |
| 23              | 9           |                  |        |        |             |   | 0.0                 |   |  |
| 23              | 12          | 24/15            |        |        |             |   | 0.0                 |   |  |
| 24              | 4           |                  |        |        |             |   | 0.0                 |   |  |
| 24              | 7           | 24/15            |        |        |             |   | 0.0                 |   |  |
| 25              | 7           |                  |        |        |             |   | 0.0                 |   |  |
| 25              | 7           | 24/15            |        |        |             |   | 0.0                 |   |  |
| 26              |             |                  |        |        |             |   | 0.0                 |   |  |



Wannalancit Mills  
 650 Suffolk Street  
 Lowell MA  
 Telephone: 978-970-5600  
 Fax: 978-453-1995

# BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 235 Tyler Street / 158037.0020 SCREEN TYPE/SLOT NA  
 BORING/WELL NUMBER B-4 FILTER PACK TYPE NA  
 TRC GEOLOGIST H. Rizza SEAL TYPE NA  
 DRILLING CONTRACTOR/FOREMAN Geosearch/John / Rodney DEPTH TO WATER (Approximate Feet) 16  
 DATE DRILLED 3/23/09 TOTAL DEPTH (Feet) 14  
 LOCATION 20 feet west of B-3/MW-3 GROUND ELEVATION (Feet, NAVD 88) NA  
 SAMPLING METHOD 2' Split Spoon REFERENCE ELEVATION (Feet, NAVD 88) NA  
 DRILLING METHOD HSA / CME 75  
 NOTES Sampled for VPH, EPH, PCBs and Lead.

| DEPTH (ft. BGL) | BLOW COUNTS | PEN/REC (INCHES) | CORE # | TRC ID | GRAPHIC LOG | LITHOLOGIC DESCRIPTION                                | Field Testing (ppm) | SAMPLE ID/TIME                    | WELL DIAGRAM |
|-----------------|-------------|------------------|--------|--------|-------------|---|---------------------|-----------------------------------|--------------|
| 1               |             |                  |        |        |             | Drilled to 8 feet for sampling.                       |                     |                                   |              |
| 2               |             |                  |        |        |             |   |                     |                                   |              |
| 3               |             |                  |        |        |             |   |                     |                                   |              |
| 4               |             |                  |        |        |             |   |                     |                                   |              |
| 5               |             |                  |        |        |             |   |                     |                                   |              |
| 6               |             |                  |        |        |             |   |                     |                                   |              |
| 7               |             |                  |        |        |             |   |                     |                                   |              |
| 8               | 6           | 24/5             |        |        |             | 2" White pulverized ROCK.                             |                     |                                   |              |
| 9               | 3           |                  |        |        |             | 3" Brown fine to medium SAND, with some gravel.       | 0.0                 |                                   |              |
| 10              | 4           |                  |        |        |             | No Recovery.  |                     |                                   |              |
| 11              | 6           | 24/0             |        |        |             |   | 7.0                 |                                   |              |
| 12              | 8           |                  |        |        |             |   |                     |                                   |              |
| 13              | 9           |                  |        |        |             |   |                     |                                   |              |
| 12              | 5           | 24/14            |        |        |             | 14" Brown medium to coarse SAND, some tan sand at 5". | 0.0                 | MW-3 (12-14) (13)<br>1540<br>HOLD |              |
| 13              | 6           |                  |        |        |             |   |                     |                                   |              |
| 14              | 6           |                  |        |        |             |   |                     |                                   |              |
| 14              | 9           |                  |        |        |             | End of Boring @ 14 feet                               |                     |                                   |              |



Low-flow Groundwater Sampling Data Record

Project: 235 Tyler St. Project No.: 158037.0020 Date/Time: 3/31/09 <sup>0920</sup>  
 Sheet 1 of 1

TRC Personnel: H. Rizza

Well Identification: MW-1

WELL INTEGRITY

|                        | YES                                 | NO                       |
|------------------------|-------------------------------------|--------------------------|
| Protect. Casing Secure | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Concrete Collar Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PVC Stick-up Intact    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Well Cap Present       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Security Lock Present  | <input type="checkbox"/>            | <input type="checkbox"/> |

Protective Casing Stick-up (from ground) Flush ft.

Well Depth 16.50 ft.  top of riser  measured  
 top of casing  historical

Riser Stick-up (from ground) \_\_\_\_\_ ft.

Water Depth 9.33 ft. LNAPL/DNAPL Depth = NA  
 Thickness = \_\_\_\_\_

WELL DIAMETER  2 inch  
 4 inch  
 6 inch

LOW FLOW DATA  
 Depth of pump intake: 12.97  
 Static water level after pump put into well: 9.33

PID SCREENING MEAS.

|            |            |
|------------|------------|
| Background | <u>0.0</u> |
| Well Mouth | <u>0.0</u> |

WELL MATERIAL  PVC  SS

Initial purge Rate/ Water Level (100-400 ml/min): 225 ml/min  
 Adjusted purge Rates/time/WL (record changes): \_\_\_\_\_

Flow rate at time of sampling: 225 ml/min

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

| Time                | 0945  | 0948  | 0951  | 0954  | 0957  | 1000  | 1003  | 1006  | 1009  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Temp. (C)           | 8.60  | 8.73  | 8.77  | 8.70  | 8.74  | 9.01  | 9.14  | 9.03  | 9.00  |
| Conduct. (µmhos/cm) | 0.622 | 0.845 | 0.868 | 0.877 | 0.884 | 0.887 | 0.889 | 0.893 | 0.897 |
| DO (mg/l)           | 10.17 | 9.81  | 9.79  | 9.78  | 9.75  | 9.74  | 9.74  | 9.74  | 9.74  |
| pH (Std. Units)     | 7.38  | 7.30  | 7.30  | 7.29  | 7.28  | 7.28  | 7.27  | 7.27  | 7.26  |
| Eh (millivolts)     | 211.0 | 208.4 | 204.8 | 200.6 | 194.9 | 187.5 | 181.8 | 179.7 | 179.6 |
| Turb. (NTU)         | 5.70  | 5.32  | 5.26  | 4.19  | 4.14  | 5.86  | 4.23  | 1.78  | 0.68  |
| Flow (ml/min)       | 225   | 225   | 225   | 225   | 225   | 225   | 225   | 225   | 225   |
| Depth To Water (ft) | 9.33  | 9.33  | 9.33  | 9.33  | 9.33  | 9.33  | 9.33  | 9.33  | 9.33  |
| Time                |       |       |       |       |       |       |       |       |       |
| Temp. (C)           |       |       |       |       |       |       |       |       |       |
| Conduct. (µmhos/cm) |       |       |       |       |       |       |       |       |       |
| DO (mg/l)           |       |       |       |       |       |       |       |       |       |
| pH (Std. Units)     |       |       |       |       |       |       |       |       |       |
| Eh (millivolts)     |       |       |       |       |       |       |       |       |       |
| Turb. (NTU)         |       |       |       |       |       |       |       |       |       |
| Flow (ml/min)       |       |       |       |       |       |       |       |       |       |
| Depth To Water (ft) |       |       |       |       |       |       |       |       |       |

Pump Type

- Peristaltic Pump   
 Submersible Pump   
 Bladder Pump   
 Other: \_\_\_\_\_

Purge

Sample

Description of Sampling Equipment and Flow Rate:

YSI 600XL/650MDS  
pump w/ dedicated tubing + knotte 2020  
IL probe

| Analytical Parameter  | Filtered (Y/N) | Preservation | Volume        | Time Collected | Sample #    | Case # |
|-----------------------|----------------|--------------|---------------|----------------|-------------|--------|
| <u>VPH</u>            | <u>N</u>       | <u>HCl</u>   | <u>vial</u>   | <u>10/0</u>    | <u>MW-1</u> |        |
| <u>EPH</u>            | <u>N</u>       | <u>HCl</u>   | <u>1L</u>     |                |             |        |
| <u>Total lead</u>     | <u>N</u>       | <u>HNO3</u>  | <u>250 ml</u> |                |             |        |
| <u>Dissolved lead</u> | <u>Y</u>       | <u>HNO3</u>  | <u>250 ml</u> |                |             |        |





Low-flow Groundwater Sampling Data Record

Project: 235 Tyler St. Project No.: 158037.0020 Date/Time: 10/6  
3/3/09 Sheet 1 of 1

TRC Personnel: H. Rizza

Well Identification: MW-2

WELL INTEGRITY

|                        | YES                                 | NO                       |
|------------------------|-------------------------------------|--------------------------|
| Protect. Casing Secure | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Concrete Collar Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PVC Stick-up Intact    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Well Cap Present       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Security Lock Present  | <input type="checkbox"/>            | <input type="checkbox"/> |

Protective Casing Stick-up (from ground) flush ft.

Well Depth 17.2 ft.  top of riser  measured  
 top of casing  historical

Riser Stick-up (from ground) \_\_\_\_\_ ft.

Water Depth 16.27 ft. LNAPL/DNAPL Depth NA  
Thickness = \_\_\_\_\_

WELL DIAMETER  2 inch  
 4 inch  
 6 inch

LOW FLOW DATA  
Depth of pump intake: 13.73

Static water level after pump put into well  
10.27

Initial purge Rate/Water Level (100-400 ml/min):  
275 ml/min

Adjusted purge Rates/time/WL(record changes)  
NA

PID SCREENING MEAS.

|            |            |
|------------|------------|
| Background | <u>0.0</u> |
| Well Mouth | <u>0.0</u> |

WELL MATERIAL

PVC  SS

Flow rate at time of sampling: 275 ml/min

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

| Time                | 1100  | 1103  | 1106  | 1109  | 1112  | 1115  | 1118  | 1121  | 1124  | 1127  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Temp. (C)           | 8.42  | 8.50  | 8.55  | 8.61  | 8.38  | 8.37  | 8.51  | 8.65  | 8.65  | 8.63  |
| Conduct. (µmhos/cm) | 0.900 | 0.898 | 0.897 | 0.895 | 0.894 | 0.889 | 0.888 | 0.884 | 0.884 | 0.879 |
| DO (mg/l)           | 7.82  | 7.86  | 7.87  | 7.94  | 7.92  | 8.00  | 8.02  | 8.03  | 8.05  | 8.05  |
| pH (Std. Units)     | 7.27  | 7.27  | 7.25  | 7.24  | 7.22  | 7.23  | 7.23  | 7.22  | 7.22  | 7.22  |
| Eh (millivolts)     | 167.4 | 166.1 | 158.5 | 156.4 | 158.0 | 161.9 | 161.5 | 161.2 | 161.2 | 162.2 |
| Turb. (NTU)         | 5.80  | 3.96  | 4.06  | 3.00  | 2.49  | 2.01  | 2.36  | 2.08  | 1.69  | 1.30  |
| Flow (ml/min)       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |
| Depth To Water (ft) | 10.30 | 10.30 | 10.30 | 10.30 | 10.30 | 10.30 | 10.30 | 10.30 | 10.30 | 10.30 |

|                     |  |  |  |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|--|--|--|
| Time                |  |  |  |  |  |  |  |  |  |  |
| Temp. (C)           |  |  |  |  |  |  |  |  |  |  |
| Conduct. (µmhos/cm) |  |  |  |  |  |  |  |  |  |  |
| DO (mg/l)           |  |  |  |  |  |  |  |  |  |  |
| pH (Std. Units)     |  |  |  |  |  |  |  |  |  |  |
| Eh (millivolts)     |  |  |  |  |  |  |  |  |  |  |
| Turb. (NTU)         |  |  |  |  |  |  |  |  |  |  |
| Flow (ml/min)       |  |  |  |  |  |  |  |  |  |  |
| Depth To Water (ft) |  |  |  |  |  |  |  |  |  |  |

Pump Type:  Peristaltic Pump  Submersible Pump  Bladder Pump  Other: \_\_\_\_\_

Purge:  Sample:  Description of Sampling Equipment and Flow Rate:  
YSI 600XL/600mDS  
Beckman w/ dedicated tubing  
IT probe

| Analytical Parameter | Filtered (Y/N) | Preservation | Volume | Time Collected | Sample # | Case # |
|----------------------|----------------|--------------|--------|----------------|----------|--------|
| VPH                  | N              | HCl          | Vial   | 1130           |          |        |
| EPH                  | N              | HCl          | 1L     |                |          |        |
| Total Lead           | N              | HNO3         | 250ml  |                |          |        |
| Dissolved Lead       | Y              | HNO3         | 250ml  |                |          |        |



Low-flow Groundwater Sampling Data Record

Project: 235 Tyler St. Project No.: 158051.0020 Date/Time: 3/31/09 1210 Sheet 1 of 1  
 TRC Personnel: H. Lizza

Well Identification: MW-3

WELL INTEGRITY

|                        | YES                                 | NO                       |
|------------------------|-------------------------------------|--------------------------|
| Protect. Casing Secure | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Concrete Collar Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| PVC Stick-up Intact    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Well Cap Present       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Security Lock Present  | <input type="checkbox"/>            | <input type="checkbox"/> |

Protective Casing Stick-up (from ground) Flush ft.

Well Depth 25.3 ft.  top of riser  measured top of casing  historical

Riser Stick-up (from ground) \_\_\_\_\_ ft.

Water Depth 17.11 ft. LNAPL/DNAPL Depth = NA  
 Thickness = \_\_\_\_\_

WELL DIAMETER  2 inch  4 inch  6 inch

LOW FLOW DATA  
 Depth of pump intake: 21.2  
 Static water level after pump put into well: 17.20  
 Initial purge Rate/ Water Level (100-400 ml/min): 250 ml/min  
 Adjusted purge Rates/time/WL(record changes): NA

PID SCREENING MEAS.

|            |            |
|------------|------------|
| Background | <u>0.0</u> |
| Well Mouth | <u>0.0</u> |

WELL MATERIAL  PVC  SS

Flow rate at time of sampling: 250 ml/min

FIELD WATER QUALITY MEASUREMENTS (record at 3-5 minute intervals)

| Time                | 1225  | 1228   | 1231  | 1234  | 1237  | 1240  | 1243  | 1246  | 1252  | 1255  |
|---------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Temp. (C)           | 9.85  | 9.83   | 9.85  | 9.76  | 9.69  | 9.60  | 9.61  | 9.55  | 9.51  | 9.56  |
| Conduct. (µmhos/cm) | 1.693 | 1.686  | 1.666 | 1.601 | 1.477 | 1.372 | 1.302 | 1.255 | 1.238 | 1.227 |
| DO (mg/l)           | 6.30  | 6.15   | 6.12  | 6.09  | 6.35  | 6.68  | 7.30  | 7.35  | 7.55  | 7.75  |
| pH (Std. Units)     | 7.50  | 7.48   | 7.48  | 7.49  | 7.51  | 7.52  | 7.52  | 7.52  | 7.51  | 7.51  |
| Eh (millivolts)     | -98.7 | -102.2 | -99.9 | -93.5 | -81.1 | -75.4 | -70.3 | -64.8 | -63.4 | -61.4 |
| Turb. (NTU)         | 4.67  | 3.83   | 3.53  | 3.28  | 2.30  | 2.23  | 0.17  | 0.85  | 1.14  | 0.73  |
| Flow (ml/min)       | 250   | 250    | 250   | 250   | 250   | 250   | 250   | 250   | 250   | 250   |
| Depth To Water (ft) | 17.20 | 17.20  | 17.20 | 17.20 | 17.20 | 17.20 | 17.20 | 17.20 | 17.20 | 17.20 |
| Time                | 1258  | 1301   | 1304  | 1307  |       |       |       |       |       |       |
| Temp. (C)           | 9.55  | 9.49   | 9.53  | 9.47  |       |       |       |       |       |       |
| Conduct. (µmhos/cm) | 1.227 | 1.221  | 1.226 | 1.225 |       |       |       |       |       |       |
| DO (mg/l)           | 8.03  | 8.35   | 8.31  | 8.31  |       |       |       |       |       |       |
| pH (Std. Units)     | 7.51  | 7.51   | 7.50  | 7.50  |       |       |       |       |       |       |
| Eh (millivolts)     | -60.5 | -59.4  | -58.0 | -56.3 |       |       |       |       |       |       |
| Turb. (NTU)         | 0.65  | 1.04   | 0.46  | 0.52  |       |       |       |       |       |       |
| Flow (ml/min)       | 250   | 250    | 250   | 250   |       |       |       |       |       |       |
| Depth To Water (ft) | 17.20 | 17.20  | 17.20 | 17.20 |       |       |       |       |       |       |

Pump Type

Peristaltic Pump   
 Submersible Pump   
 Bladder Pump   
 Other: \_\_\_\_\_

Purge  Sample

Description of Sampling Equipment and Flow Rate:

YSI 600A / 650 mds, Geopump w/ dedicated tubing, Lamotte 2020, IP probe.

| Analytical Parameter | Filtered (Y/N) | Preservation | Volume | Time Collected | Sample #   | Case # |
|----------------------|----------------|--------------|--------|----------------|------------|--------|
| VPH                  | N              | HCl          | vial   | 1310           | MW-3/DUP-  |        |
| EPH                  | N              | HCl          | 1 L    |                | MW-3/DUP-1 |        |
| Total Nitrate        | N              | HNO3         | 250ml  |                |            |        |
| Dissolved Lead       | Y              | HNO3         | 250ml  |                |            |        |

**APPENDIX F**

**DATA USABILITY ASSESSMENT**

**Data Usability Assessment: 235 Tyler Street, Pittsfield, MA**

|  |   |
|--|---|
| <p><b>1:</b> Discuss appropriateness of selected analytical methods to quantitatively support disposal site's RAO. Discuss any impacts to the data used to support the RAO if generated with non-CAM methods. Justify that the data used to support the RAO is adequate in spite of the use of non-CAM methods.</p>  | <p><b>Appropriateness of Analytical Methods Used</b></p> <ul style="list-style-type: none"> <li>The following methods were utilized to respond to all contaminants of concern in soil: VPH, EPH, PCB Aroclors, and lead</li> <li>The following methods were utilized to respond to all contaminants of concern in groundwater: VPH, EPH, and total lead.</li> <li>Table DUA-1 summarizes all samples used for the RAO and included in this data usability assessment.</li> <li>All soil and groundwater sample analyses were performed using the CAM.</li> </ul>  |
| <p><b>2:</b> Discuss appropriateness of selected analytical methods' Reporting Limits (RL) to quantitatively support the disposal site's RAO.</p>  | <p>Analytical reporting limits, as documented by the laboratory, meet or exceed sensitivity requirements required to assess level of risk and cleanup standards for contaminants of concern previously identified for this response action for soil and groundwater.</p>  |
| <p><b>3:</b> Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.)</p> <p><u>CAM Data:</u> Review Certification Form and discuss data quality issues noted in narrative.<br/> <u>Non-CAM Data:</u> Discuss data quality indicators used to assess data and any data quality issues noted.</p> | <p>(√) <i>Meets all CAM requirements and performance standards without qualification.</i><br/>         ( ) <i>Does not meet all CAM requirements and performance standards without qualification. If NO, discuss data usability implications</i></p> <p>There were no analytical accuracy or precision nonconformances associated with the CAM data.</p>  |
| <p><b>4:</b> Discuss laboratory performance criteria and data quality indicators utilized to assess overall Field Data Usability (sample preservation compliance, sample subsampling/compositing, field QC samples, etc.)</p>  | <p><b>Sample Preservation:</b></p> <p>Sample preservation procedures performed as per required methods for all soil and groundwater sampling.</p> <p><b>Field QC:</b></p> <p><u>Accuracy:</u> soil and groundwater data assessed using trip blanks for VPH analyses and cooler temperature blanks for all coolers.<br/> <u>Precision:</u> soil and groundwater data assessed using field duplicates.</p> <ul style="list-style-type: none"> <li><u>Soil Field Duplicates:</u> MW-3/1-3' (EPH, PCB Aroclors, lead), MW-3/2' (VPH)</li> <li><u>Groundwater Field Duplicates:</u> MW-3 (VPH, EPH, total lead)</li> </ul> <p><b>Accuracy of Field QC:</b></p> <p>No issues were noted in regards to the accuracy of field QC analyses.</p> <p><b>Precision of Field QC (Field duplicate criteria: RPD ≤30 for aqueous and ≤50 for soils):</b></p> <p>No issues were noted in regards to the precision of field QC analyses.</p> <p>NOTE: It should be noted that MS/MSD analyses were not performed with the soil or groundwater samples for this program. Potential matrix effects for all lead analyses could not be assessed due to the lack of MS/MSD analyses. Potential matrix effects associated with EPH, VPH, and PCB Aroclor analyses were assessed through the use of surrogates only.</p> |
| <p><b>5:</b> Analytical Completeness of Data Used to Support the RAO: Discuss any data rejected pursuant to Appendix II, Rejection Criteria – Analytical Data Usability Assessments</p>  | <ul style="list-style-type: none"> <li>100% analytical completeness achieved for all site data.</li> <li>No gross failures of quality control in the analytical procedures.</li> </ul>  |

**Table DUA-1  
 Summary of Soil and Groundwater Samples and Parameters Included in RAO and Data Usability Assessment  
 235 Tyler Street, Pittsfield, MA**

| <b>Sample Location</b>                 | <b>VPH</b> | <b>EPH</b> | <b>PCB Aroclors</b> | <b>Lead</b> |
|--|------------|------------|---------------------|-------------|
| <b>Soil Samples: February 2009</b>     |            |            |                     |             |
| BOT-1                                  | X          | X          |                     |             |
| BOT-2                                  | X          | X          |                     |             |
| COMP-1                                 |            | X          |                     |             |
| COMP-2                                 |            | X          |                     |             |
| <b>Soil Samples: March 2009</b>        |            |            |                     |             |
| MW-1/1-3'                              | X          | X          | X                   | X           |
| MW-1/8-10'                             | X          | X          | X                   | X           |
| MW-2/1-3'                              | X          | X          | X                   | X           |
| MW-2/8-10'                             | X          | X          | X                   | X           |
| MW-3/1-3'                              | X          | X          | X                   | X           |
| MW-3/10-12'                            | X          | X          | X                   | X           |
| MW-3/16-18'                            | X          | X          | X                   | X           |
| <b>Groundwater Samples: March 2009</b> |            |            |                     |             |
| MW-1                                   | X          | X          |                     | X           |
| MW-2                                   | X          | X          |                     | X           |
| MW-3                                   | X          | X          |                     | X           |

# **APPENDIX G**

## **LIMITATIONS**

## Limitations

1. TRC's study was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and TRC observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. TRC's findings and conclusions must be considered not as scientific certainties, but rather as our professional opinion concerning the significance of the limited data gathered during the course of the study. No other warranty, express or implied is made. Specifically, TRC does not and cannot represent that the subject property contains no hazardous material, oil, or other latent condition beyond that observed by TRC during its study. Additionally, TRC makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a Massachusetts Department of Environmental Protection (DEP) audit.
2. This study and report have been prepared on behalf of and for the exclusive use of the **City of Pittsfield** solely for use in a RAO Report for the Former Morningside Fire Station, located in Pittsfield, Massachusetts (subject property) under the Massachusetts Contingency Plan (MCP - 310 CMR 40.0000). This submittal and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of TRC, the Client, or the property owner.
3. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this report was carried out in accordance with the Terms and Conditions referenced in our proposals to the Client.
4. In the event that the Client or others authorized to use this report obtain information on environmental or hazardous waste issues at the subject property not contained in this report, such information shall be brought to TRC's attention forthwith. TRC will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.
5. The purpose of this report was to assess the subject property with respect to the requirements of the MCP. No specific attempt was made to check on the compliance of present or past owners or operators of the Site with federal, state, or local laws and regulations, environmental or otherwise.