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ASTM Phase II Environmental Site Assessment

**Caouette Property
2 Stow Street/90 Martin Street
Acton, Massachusetts**

Prepared for:

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1.0 EXECUTIVE SUMMARY

Groundwater & Environmental Services, Inc. (GES), under contract with the Town of Acton, Massachusetts, has performed a Phase II Environmental Site Assessment in conformance with the scope and limitations of ASTM E1903-97 (2002), of a portion of the property located at 2 Stow Street/90 Martin Street in Acton, Massachusetts (“the site”).

The purpose of this Phase II Environmental Site Assessment (ESA) is to determine the presence or absence of environmental impairment on the portion of the 2 Stow Street/90 Martin Street formerly occupied by the “Former Moore & Burgess Co. and Morocco Factory” in the eastern portion of the 2 Stow Street property and the adjoining northern shore of Mill Pond located south of the former factory. This area was previously identified as a Recognized Environmental Condition (REC) in an ASTM Phase I Environmental Site Assessment prepared by O’Reilly, Talbot & Okun Associates in March 2010.

The subsurface exploration portion of the Phase II ESA consisted of the installation of four groundwater monitoring wells and the collection of soil and groundwater samples from each well. Additionally, seven shallow soil samples and six sediment samples were collected from the site with a hand auger. Each sample was collected, preserved and iced in a cooler. The samples were properly labeled and sent to the analytical laboratory under chain-of-custody procedures. The sediments and soil samples were analyzed for polynuclear aromatic hydrocarbons (PAHs) by SW 846 EPA Method 8270C and arsenic, chromium, lead and zinc by SW 846 EPA Method 6010B. Groundwater samples were analyzed for volatile organic compounds (VOCs) by SW 846 EPA Method 8260B, arsenic, chromium, lead and zinc by SW 846 EPA Method 6010B, oxidation reduction potential (ORP), specific conductance, and pH.

One of the six sediment samples collected on April 30, 2010 from the area of the eastern shore of Mill Pond, sediment sample SD-1 (0-2’), contained chromium at a concentration of 141 milligrams per-kilogram (mg/kg). Additionally, sediment sample SD-4 (0-2’) contained concentrations of lead at 156 mg/kg and fluorene at 0.991 mg/kg, which exceed the “Freshwater Sediment Screening Criteria” as defined by the Massachusetts Department of Environmental Protection (MassDEP). Please note that the freshwater sediment screening criteria is not an enforceable regulation but rather a threshold above which would require the performance of a level 2 ecological risk characterization.

Of the seven shallow hand auger soil samples (SS-1 to SS-7) collected at a depth of 0-2 feet, SS-2 and SS-3 located within the foundation area of the former factory exhibited concentrations of PAHs and lead in excess of the reportable concentrations (RCS-1) outlined in the Massachusetts Contingency Plan (MCP).

Of the four shallow test boring soil samples (MW-1 through MW-4) collected at a depth of 0-2 feet, MW-1, MW-3 and MW-4 contained arsenic at concentrations in excess of the MassDEP RCS-1 reportable concentration of 20 mg/kg. MW-4 also exhibited both multiple PAH and lead concentrations in excess of the RCS-1 reportable concentrations. Additionally, the deeper soil sample collected from MW-1 from 4 to 5 feet contained chromium concentrations exceeding the RCS-1 of 30 mg/kg.

These reportable concentrations constitute a 120-day MassDEP reporting condition for the current owner of the property.

Groundwater samples were collected from the four newly installed monitoring wells on May 6, 2010. Based on analytical results for the May 6, 2010 sampling event, and as indicated in Table 3, no volatile organic compounds, arsenic, chromium, lead or zinc were detected at concentrations above the associated MCP RCGW-2 reportable concentrations in the groundwater samples collected from monitoring wells MW-1 through MW-4.



Based upon the results of the ASTM Phase II ESA, GES recommends that the following be performed:

Provide the results of the Phase II ESA to the current owners of the property and inform them that based upon the soil sampling results, they are required to report to the MassDEP within 120 days that a reportable release of oil or hazardous materials has been detected on their property. This release condition will require them to retain a Licensed Site Professional (LSP) and perform certain assessment and possibly remediation activities under the MCP 310 CMR 40.00000.

If the Town of Acton decides to purchase the property, any further assessment and/or remediation work must be performed under the MCP and must utilize the services of an LSP.

The remainder of the property, which has been farmed in the past and present, the use of pesticides, as long as they have been applied in accordance with the manufacturer's directions, are exempt from reporting under the MCP 310 CMR 40.0317(8) (c).

If any extensive excavation was to be performed in the area, to construct building foundations, or install underground utilities we would recommend the following:

1. Soil samples should be collected in the area of the proposed excavation and tested for pesticides prior to the excavation work.
2. The sample results should be evaluated by an environmental professional (such as an LSP) to determine if any health and safety concerns exist associated with the excavation (dermal contact with pesticides etc.) and determine the off-site disposal costs associated with pesticide impacted soils.
3. If it is determined that pesticides are present, a soil management plan and health and safety plan should be prepared to ensure the safety of the excavation contractor.
4. If excess soil is generated it should be covered with and stockpiled on polyethylene sheeting to minimize human and environmental exposure.
5. The excavated soil should be tested for disposal parameters and disposed of under a Bill-of-Lading or a hazardous waste manifest.



2.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES), under contract with the Town of Acton, Massachusetts, has performed a Phase II Environmental Site Assessment in conformance with the scope and limitations of ASTM E1903-97 (2002), of a portion of the property located at 2 Stow Street/90 Martin Street in Acton, Massachusetts. Figure 1 depicts the site location on a portion of the USGS topographic map for Maynard, MA.

2.1 Purpose

The purpose of this Phase II Environmental Site Assessment is to determine the presence or absence of environmental impairment on the portion of the 2 Stow Street/90 Martin Street formerly occupied by the “Former Moore & Burgess Co. and Morocco Factory” in the eastern portion of the 2 Stow Street property and the adjoining northern shore of Mill Pond located south of the former factory. This area was previously identified by in an ASTM Phase I Environmental Site Assessment as a Recognized Environmental Condition (REC) by O’Reilly, Talbot & Okun Associates in March 2010. Should a reportable condition be encountered, the Town of Acton will be notified in a timely manner. While it is the responsibility of the current owner to notify the MassDEP, the information as it becomes available will have a direct bearing on whether or not the Town proceeds with the purchase of the property.

2.2 Special Terms and Conditions

The Terms and Conditions under which this Phase II Environmental Site Assessment has been performed are included in GES’ proposal to the Town of Acton dated April 16, 2010, and are included as Appendix E.

The scope of this investigation is restricted to the area of the former “Former Moore & Burgess Co. and Morocco Factory” in the eastern portion of the 2 Stow Street property and the adjoining northern shore of Mill Pond located south of the former factory, approximately 1.85 acres in area. The boundaries of this investigation are depicted in Figure 2.

The conclusions of this report are based solely upon observations made during this evaluation. GES’ opinions should not be construed as relating to health and safety issues, directly. Should additional information become available, this information should be reviewed by GES and the conclusions herein modified, as appropriate. In addition, this report should not be construed as verification of compliance by the present owners or operators of the site with federal, state, or local laws and regulations.

Information provided by others was used in assessing the site conditions. The accuracy of the conclusions made from this information is inherently based on the accuracy of the information provided. It must be recognized that the limited scope of services may have precluded recognition of contamination at the site. The absence of recognized environmental conditions or contamination recognition in this report cannot be interpreted as a warranty, expressed or implied, that no contamination exists at the subject site. **Accordingly, this ESA does not purport to describe all environmental risks affecting the property, nor will any additional investigation determine as a matter of certainty that all environmental risks affecting the property have been identified.**



2.3 Limitations and Exceptions of Assessment

GES has made a good faith effort to obtain reasonably ascertainable information sources from the User; and third party historical documentation sources. The inclusion of information from these data sources met the following criteria: the information was publicly available, the information was obtained in a reasonable time frame, the information was obtained at a reasonable cost, and the information was practically reviewable.

GES thoroughly reviewed the work scope provided with the RFP and clarifications discussed during a telephone conversation with Mr. Bartl on April 13, 2010. The following assumptions are provided for further clarification:

The information and data compiled to complete this ESA was collected in good faith and relies on the information provided during the field investigation and by several outside sources. GES utilized information provided by third parties with the assumption that the information was whole and accurate to the best of their knowledge. GES made a good faith effort to collect and assess as many practically reviewable information sources in the timeframe allowed under the terms of the contract negotiated with the User.

- GES and its subcontractors will have access to the property during normal business days to execute the work scope.
- Work will be conducted during standard work hours (8 am-5 pm) days and work weeks (Monday-Friday).
- This project will be performed in accordance with the current ASTM Standard E1903-Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process.
- Assuming a depth to groundwater of less than ten feet, each well will be drilled to a maximum depth of twenty (20) feet deep.
- The locations and number of samples proposed to be collected and analyzed are based upon the requirements of the Request for Quote and do not represent a complete assessment of the entire Caouette Property at 2 Stow Street and 90 Martin Streets.
- The proposal does not include the costs for monitoring well decommissioning/abandonment.

2.4 Limiting Conditions and Methodology Used

The direct push drilling method is limited to drilling in unconsolidated soils and sediments. If bedrock or concrete is encountered, refusal is reached. In the case of the four wells installed for this investigation, refusal was reached between 11 and 14 feet below ground surface (bgs). However, a minimum of 5 feet of standing groundwater was observed in each well. This is sufficient for the purposes of groundwater sampling.

3.0 BACKGROUND

The area of concern for this investigation, referred to herein as “the site”, has been described as the area of the “Former Moore & Burgess Co. and Morocco Factory” in the eastern portion of the 2 Stow Street property and the adjoining northern shore of Mill Pond located south of the former factory (refer to attached Site Plan).

3.1 Site Description and Features

The approximate elevation at the site is between 195 to 210 feet above mean sea level. Topography at the Caouette property is relatively flat, with a slight to moderate grade from northeast to southwest across the site. Surface runoff from the open field areas of the Caouette Property is anticipated to flow to the Mill Pond located along the southern boundary of the Caouette Property. No storm-water collection system is located on the site, and surface runoff is anticipated to flow into the Mill Pond.

According to the USGS Geologic Map of Massachusetts (1983), the site is located within the Nashoba Formation of Ordovician to Proterozoic Z age. The Nashoba Formation composed of sillimanite schist and gneiss, partly sulfidic, amphibole biotite gneiss, calc-silicate gneiss and marble.

The geology of the site was evaluated by reviewing the soil classifications provided in recent drilling logs, which are attached in Appendix A. According to these logs, the site is underlain by approximately four feet of fill in the area of the former factory; below which is found a well graded sand and silty sand to a depth of refusal at 11-14 feet bgs. Bedrock has not been encountered during subsurface investigations at the site, with a maximum drilling depth of 14 feet bgs (MW-4). However, refusal occurred at this depth, indicating a dense stratigraphy.

Based on surface topography and drainage patterns indicated on the USGS Topographic Map of the Maynard, Massachusetts Quadrangle, groundwater flow in the immediate vicinity of the site is expected to be to the south. Regional groundwater flow is also expected to be generally to the south.

During recent groundwater sampling activities conducted at the site in May 2010, groundwater depths ranged from approximately 3.7 to 6.1 feet below the tops of the well casings. Monitoring well gauging data indicate a southerly groundwater flow direction. The horizontal gradient is approximately 0.75/120 (0.00625) feet per foot. A groundwater contour map for the May 2010 gauging/sampling event is provided as Figure 4.

3.2 Physical Setting

The property consists primarily of open fields with a wooded area near the railroad track and Mill Pond. The topography generally slopes to the south towards the Mill Pond.

3.3 Site History and Land Use

The area of concern was used as a leather manufacturing facility from 1892 until the early 1900’s. The Morocco Factory tanned leather with vegetable tanning and chromium tanning methods. Lead, Arsenic, Zinc and Polynuclear Aromatic Hydrocarbons (PAHs) may also be present from the historic tanning operations.

Following the Morocco Factory, an ice cream pail manufacturing company was in place. These pails were typically metal and could contain zinc.



From 1908 to 1917 the buildings were occupied by the Moore & Burgess, Co., who manufactured fabric strips.

The buildings were vacant from 1917 until 1930, at which time they were demolished. Since 1930 the area of the former factory has been abandoned and overgrown and is presently a wooded area. As shown on Figure 2, the remainder of the 2 Stow Street and 90 Martin Street property has been used as a farm and residential property. The location of the factory taken from the OTO base map is based upon the Sanborn Fire Insurance map but does not show the true extent of the former factory foundation area. Figure 2, the Site Map, shows an extended approximate location of the extent of the factory area.

3.4 Adjacent Property Land Use

During the course of GES's site visit, the adjacent property use was observed. Residential properties on both sides of Stow Street and Maple Street lie to the north; the former B&M railroad tracks and an extension of Mill Pond lie to the east; Mill Pond and residential properties lie to the south; and residential properties; Martin Street and Stonefield Farm lie to the west.

3.5 Summary of Previous Site Assessments

In March 2010, O'Reilly, Talbot & Okun (OTO) performed an ASTM Phase Environmental Site Assessment in accordance with ASTM Phase I E1527-05 standard for the entire 15.7 acre 2 Stow Street/90 Martin Street property.

The ESA indicates that the 15.7 acre site is composed of the 3-acre residence at 90 Martin Street with a 1,000 square foot house with basement, heated by oil with a 275-gallon above ground fuel storage tank. The 2 Stow Street parcel is composed of 7.5 acres of undeveloped farm/wooded land and approximately 5-acres of open water (Mill Pond).

The regulatory review using the First Search database indicated no listings for the site. A RCRA generator was identified at 30 Stow Street, 11 releases and/or database listings were identified within one mile of the subject site. Two leaking underground storage tank listings were identified within ½ mile none of which were expected to impact the subject property. The groundwater underlying the portion of the property at the former factory site was identified as being classified as RCGW-1. The former factory area is within 500 feet of a residence, therefore the soil in this area is classified as RCS-1.

The history and operations of the former factory area have been described in section 3.3. Pesticides and fertilizers were used in the portion of the site used for farming. This for the most part is outside of the area used for the factory. A site reconnaissance was performed by OTO. The opinions and conclusions of the ESA indicate that one REC was observed. This REC was the former factory area, which is the subject of this Phase II environmental site assessment.

4.0 PHASE II ACTIVITIES

4.1 Scope of Assessment

The Phase II scope of work consisted of the installation of four groundwater monitoring wells; collection and analysis of four groundwater samples for volatile organic compounds (VOCs), arsenic, chromium, lead, zinc, oxidation reduction potential (ORP), specific conductivity and pH; collection and analysis of six sediment and 15 to 20 soil samples for arsenic, chromium, lead, zinc and PAHs. These soil samples were collected both from the soil borings/monitoring wells and several outlying shallow soil samples; a Phase II ESA Report was prepared for submittal to the Town of Acton Planning Director. The report



contained all the relevant findings, conclusions and appropriate recommendations concerning the former factory site, based upon the results of the Scope of Work.

The four monitoring wells were placed around the four sides of the former factory area.

Prior to any site work, GES developed a site-specific health and safety plan (HASP) that identified responsibilities, establishes personal protection standards, institutes mandatory safety practices and procedures, and provided for contingencies that may arise while performing work at the Caouette Property Site. This HASP included a hazard analysis, task specific health and safety and personal protective equipment requirements, emergency contacts, directions to the nearest hospital, site description, tasks to be performed, employee training requirements, medical monitoring, first aid, site control measures, decontamination procedures, and site operation general SOPs.

After preparation of the site-specific HASP, GES personnel traveled to the Caouette Property and pre-marked the locations for each of the environmental boring/monitoring wells, shallow soil samples and sediment samples. The Digsafe call center was notified three business days prior to the commencement of the field program.

GES contracted with a local Direct Push Drilling contractor, Crawford Drilling Services, LLC, to install the four groundwater monitoring wells. Initially, the driller pre-cleared each of the four boring locations by hand to a minimum depth of five (5) feet bgs. The Geoprobe® direct-push drilling rig collected continuous soil samples to depths between 11 and 14 feet, with the total depth based on the location of the encountered groundwater table. The soil samples were collected in Geoprobe® 5 foot long clear acetate liners. After recovery each liner was opened, and each sample was screened for VOCs with a photoionization detector (PID) in accordance with MassDEP policy. A GES geologist prepared boring/groundwater monitoring well logs describing the soil characteristics, the depth and thickness of each soil type, PID concentrations, depth to groundwater, color, odor, staining and other pertinent characteristics.

Two soil samples were collected for analysis from each boring/monitoring well, one sample from 0-2 feet in depth and the second at the groundwater surface (a total of eight samples). The soil samples were collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24 hours of collection. Once at the laboratory, the soil samples were analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C.

Each of the four direct push borings was completed as groundwater monitoring wells. The wells were completed with either 8 or 10 feet of 2-inch diameter schedule 40 PVC 10 slot well screen and up to 6 feet of PVC riser, bottom caps and expandable gripper type locking interior well caps. The well screen was set across the groundwater surface. The annular space around the screen was packed with clear, filter sand to a depth one foot above the top of the well screened interval. A minimum one-foot bentonite clay seal was placed and hydrated directly above the filter sand. The remainder of the annulus was backfilled with clean fill; a 6-inch diameter by 10-inch deep steel flush mounted road box was placed over each well and sealed with a concrete collar. Upon completion each monitoring well was developed by bailing and surging to remove fine sediments and increase the hydraulic communication between the well and surrounding aquifer.

A minimum of seven shallow soil samples were collected in and around the location of the former factory and the shore of the Mill Pond. Each sample was collected from 0-2 feet with a pre-cleaned stainless steel bucket type hand auger. After sample collection the bucket auger was decontaminated with Alconox and triple rinsed with distilled water prior to collection of the next sample. The shallow or surficial soil



samples assisted in the determination of significant risk to human health safety and the environment for the projected future recreational usage of the Caouette Property.

The soil samples were collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24 hours of collection. Once at the laboratory, the soil samples were analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C.

Six sediment samples were collected at the northeastern shore of the Mill Pond. Four samples approximately 50 feet apart were collected from 0-2 feet with a pre-cleaned stainless steel bucket type hand auger. An additional two sediment samples were collected from a depth of 2-4 feet in two of the sample locations to determine if there is contamination present or absent at the same or differing concentrations with depth. After sample collection the bucket auger was decontaminated with Alconox and triple rinsed with distilled water prior to collection of the next sample.

The soil samples were collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24 hours of collection. Once at the laboratory, the soil samples were analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C.

Groundwater samples were collected from each of the four newly installed monitoring wells one week after well completion. After opening the cap of each well the depth to the bottom of the well and the depth to groundwater were measured to determine the thickness of the water column. Then, a low-flow peristaltic pump was used with dedicated Teflon tubing to collect the groundwater samples. The downhole end of the tubing was placed approximately in the center of the well screen. The other end of the tubing was attached to a flow-through cell which has direct reading probes to obtain an instantaneous measurement of ORP, pH, conductivity as well as dissolved oxygen, temperature and turbidity. The water sample was then pumped through an in-line filter. When the field parameters stabilized over a 15 minute period the groundwater sample was collected. The groundwater samples were collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24 hours of collection. Once at the laboratory the groundwater samples were analyzed for VOCs by EPA Method SW 846 8260B; and arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B.

GES then compared the soil and groundwater data to the MassDEP reportable concentrations and the sediment data to the "Freshwater Sediment Screening Criteria". The GES project manager then contacted the Town of Acton and reported the preliminary data.

The Phase II ESA report was prepared for submittal to the Town of Acton Planning Director. The report was prepared in accordance with the format prescribed in ASTM Phase II ESA Standard E 1903. The report contains an introduction, background, description of the subsurface exploration program, sample collection, all the relevant findings, conclusions and appropriate recommendations concerning the former factory site, based upon the results of the Scope of Work. The report includes a site locus map, site plan, sample location plan, and groundwater flow map and MassGIS map. Additionally, the report included data tables for each of the matrices sampled, laboratory data sheets, and boring/monitoring well logs.

The report included Phase II recommendations concerning the future public use and management precautions for the entire land to be purchased by the Town taking into consideration its past and present agricultural use, which includes pesticide applications.



4.1.1 Supplemental Record Review

In accordance with the terms of the contract with the Town of Acton, the previous ASTM Phase I Environmental Site Assessment was reviewed. Additionally, the Massachusetts Department of Environmental Protection “Listed Sites” Web page was reviewed. No new information was obtained.

4.1.2 Conceptual Site Model and Sampling Plan

The conceptual site model is a way of describing what contaminants are present, what is the source, pathways of migration, exposure potential, media, and sensitive receptors.

Based upon the review of the ASTM Phase I report it appears that the potential source of contamination is the former factory area which has been identified as a recognized environmental condition. The possible contaminants of concern include: polynuclear aromatic hydrocarbons, arsenic, chromium, lead and zinc. Another possible type of contaminant is volatile organic compounds.

Elements necessary for a completed migration pathway to exist include an oil and hazardous materials (OHM) source, a release mechanism (e.g. leather tanning process), a medium allowing movement of the OHM, and the presence of a receptor. In the case of the potential release identified at the site, soil and sediment represent the primary media through which OHM are transmitted.

Several potential migration pathways were evaluated for the site. These included soil in the vadose zone and saturated zone, sediment, surface water, groundwater, air exposure, existing public and private underground utilities, and areas of critical environmental concern. Each potential pathway is discussed below.

Soil in Vadose Zone

In the area of the former factory, soil in the vadose zone, which is the zone between the groundwater surface and ground surface, may be a pathway of migration of contaminants due to rainwater percolation through the soil and impacting the groundwater, metabolizing contaminants by worms and other organisms living within the vadose zone, wind blown soil from the surface (metals and semi-volatile organic compounds (SVOCs)) and volatilization of VOC contaminants into the air.

Soil in Saturated Zone

The soil below the groundwater surface may be a migration pathway by dissolution of contaminants into groundwater.

Sediment

Sediment is saturated soil at or below a surface water body. The migration pathways include dissolution of contaminants into surface and groundwater, ingestion by flora and fauna, volatilization to the atmosphere.

Surface Water

Surface water in this area is in hydraulic communication with the groundwater and is in direct contact with sediment.



Groundwater

Groundwater flow has the potential to carry dissolved contaminants such as VOCs, metals and PAHs.

Air Exposure

Air may be a migration pathway through windblown dust and volatilized VOCs. However, because the area contains surface water, is heavily vegetated and has no volatile contaminants, it is unlikely that air is an active migration pathway.

Underground Utilities

No underground utilities were found within the site investigation area and therefore have been eliminated as a migration pathway.

Areas of Critical Environmental Concern

As shown on Figure 5, the MassDEP Geographic Information Systems (GIS) map, there are no areas of critical environmental concern found within the site. However, the site is located within the FEMA 100-year flood plain and is within 0.2 miles of an Interim Well Head Protection Area (IWPA).

Sampling Plan

As mentioned in section 4.1 the sampling plan consisted of collection of soil and groundwater samples from the four monitoring wells. Soil was collected from the 5 foot long acetate liners and groundwater was collected using the EPA low flow sampling protocol.

Sediment and shallow soil were sampled by using a pre-cleaned stainless steel bucket auger. The auger was decontaminated between samples. Sediment samples were collected at the 0-2 foot and 2-4 foot intervals, and shallow soil samples were collected at the 0-2 foot interval.

4.1.3 Chemical Testing Plan

The results of the Phase I Environmental Site Assessment have identified the former leather manufacturing factory as a recognized environmental condition. Certain heavy metals and semi-volatile organic compounds have been known to be contaminants of concern in the leather manufacturing process. Based upon this site history Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C were to be tested for in soil and sediment samples. Additionally, these same metals were to be tested in groundwater. Because there was a slight potential that VOCs may be present in the leather manufacturing process, soil was screened for VOCs using a PID during the monitoring well drilling. Additionally, groundwater was sampled and analyzed for VOCs by EPA Method 8260B.

4.1.4 Deviations from the Work Plan

There were no deviations from the work plan with the exception that the depth to drilling was limited to 11 to 14 feet bgs because of encountered refusals.

4.2 Field Explorations and Methods

In order to obtain representative media samples, the following techniques were utilized in the collection, preservation and analysis of sediment, soil and groundwater.

4.2.1 Shallow Soil Sampling

On April 30, 2010, shallow soil samples were collected at seven locations (SS-1 through SS-7) in the area in and around the former factory on the Caouette property as shown in Figure 3. Each sample was collected using a pre-cleaned stainless steel hand auger. Soil was collected from the 0-2 foot interval in each of the seven locations. The hand auger was decontaminated with a distilled water, Alconox and distilled water rinse between each sample.

Each sample was collected in the analytical method-appropriate sample container containing the proper preservative. Each container was labeled with the project name and number, sample designation and depth interval, date and time of collection, sample matrix, preservative type and analytical method. Each sample container was then placed in an iced cooler and a chain of custody was completed. These samples were then delivered to Accutest analytical laboratory in Marlborough, MA and analyzed for Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C. Analytical results are summarized below in Section 5.2, and a copy of the Accutest analytical report for the May 2010 soil samples is included in Appendix B.

4.2.2 Sediment Sampling

On April 30, 2010, sediment samples were collected at four locations (SD-1 through SD-4) at the east end of the Mill Pond on the Caouette property as shown in Figure 3. Each sample was collected using a pre-cleaned stainless steel hand auger. Sediment was collected from the 0-2 foot interval in each of the four locations. Sediment was also collected from the 2-4 foot interval in the two central locations SD-2 and SD-3. The hand auger was decontaminated with a distilled water, Alconox and distilled water rinse between each sample.

Each sample was collected in the analytical method-appropriate sample container containing the proper preservative. Each container was labeled with the project name and number, sample designation and depth interval, date and time of collection, sample matrix, preservative type and analytical method. Each sample container was then placed in an iced cooler and a chain of custody was completed. These samples were then delivered to Accutest analytical laboratory in Marlborough, MA and analyzed for Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C. Analytical results are summarized below in Section 5.2, and a copy of the Accutest analytical report for the May 2010 soil samples is included in Appendix B.

4.2.3 Test Borings

On April 29 and 30, 2010 Crawford Drilling, Inc. (Crawford), of Westminister, Massachusetts, under GES supervision, advanced four soil borings at the site, each of which were completed as groundwater monitoring wells (MW-1 through MW-4). Refer to Figure 3, Soil and Sediment Sample Location Map, for a depiction of the four drilling locations. The borings were advanced using direct-push (Geoprobe®) drilling techniques. The first five feet of each boring were hand-cleared to avoid potential subsurface utilities. During this hand clearing with a pre-cleaned post hole digger, soil samples were collected for analysis from the 0-2' interval in each of the four borings and from 4-5" in MW-1, and 2-4' in MW-3. During soil boring advancement, soil samples were collected continuously using the five-foot long acetate liner technique. Subsurface soils obtained from the test boring program were visually classified in the field and recorded in standardized boring log format. Monitoring wells MW-1, 2 and 4 contained four feet



of fill materials composed primarily of brown well graded sand with black coal “slag” and wood fragments. This slag may be related to the railroad operation and/or the use of coal at the factory. Further investigation would be required to determine if the site falls under the coal and wood ash reporting exemption. Native subsurface soils consisted primarily of brown well graded sand and silty sand.

Soil samples were collected from continuous intervals, as practicable, and characterized and retained for headspace screening for total (VOCs using a PID equipped with a 10.6 eV lamp calibrated to an isobutylene standard (benzene equivalent). Soil screening and sampling was conducted in general accordance with MassDEP Policy #WSC-94-400, *Interim Remediation Waste Management Policy for Petroleum Contaminated Soils*. All PID readings were below the instrument detection limit of 1 part per-million by volume (ppmv).

Select soil samples were collected from each borehole. Samples from the 0-2 foot interval were collected from each of the four borings. A second sample at or near the water table were also collected from each boring [MW-1 (4-5’); MW-2 (5-7.5’); MW-3 (2-4’); and MW-4 (5-7.5’)]. Each sample container was then placed in an iced cooler and a chain of custody was completed. These samples were then delivered to Accutest analytical laboratory in Marlborough, MA and analyzed for Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B and PAHs by EPA Method SW846 8270C.

Summaries of PID screening results are provided in the boring logs and soil analytical data are provided in Table 2. Analytical results are summarized below in Section 5.2, and a copy of the Accutest analytical report for the May 2010 soil samples is included in Appendix B.

4.2.4 Monitoring Well Installation

Upon completion of the soil borings, Crawford installed groundwater monitoring wells at each of the four boring locations. Each new well was constructed of two-inch diameter schedule 40 poly vinyl chloride (PVC) with a screened interval of eight to ten feet. Sand pack was installed in the annulus of each boring to a depth above the screened interval, and a bentonite seal was installed above the sand pack to prevent surface water infiltration into the monitoring wells. The remaining portion of each monitoring well was backfilled with native soil or clean sand pack.

Each monitoring well was completed by installing a flush-mounted six-inch diameter metal road-box around the PVC riser at the ground surface with a concrete collar. Expandable locking gripper plugs were placed in the collar of each riser. Upon installation, each well was developed to remove sediment and to ensure water movement into the well. The locations of the monitoring wells are shown on Figure 2. The soil boring and monitoring well installation logs are provided in Appendix A.

A groundwater sampling event of the four newly installed monitoring wells (MW-1 through MW-4) was conducted on May 6, 2010. During this event, each well was sampled using the EPA low flow sampling method utilizing a peristaltic pump and flow through cell to determine real time ORP, conductivity, pH, temperature and turbidity, when these parameters stabilized to within 10% over a 15 minute period it was considered to be a groundwater sample representative of the aquifer. Samples were transferred into pre-cleaned sample containers with applicable preservatives. Groundwater samples from each well were analyzed for arsenic, chromium, lead and zinc by EPA Method 6010B; VOCs by EPA Method 8260B, ORP, conductivity and pH. The samples were submitted under a Chain of Custody to Accutest analytical laboratories in Marlborough, MA for analysis. Analytical results are summarized below in Section 5.2, and a copy of the Accutest analytical report for the May 2010 soil samples is included in Appendix C.

On May 6, 2010, top of well casing elevations for monitoring wells MW-1 through MW-4 were surveyed by GES using an Auto Level and stadia rod. The well casing elevations were surveyed using an arbitrary datum of 100 feet in the absence of a National Geodetic Vertical Datum.

4.2.4.1 Groundwater Elevation Measurement

The groundwater elevation within each monitoring well was measured using an electric water level tape to determine the depth to groundwater from the top of casing. The top of casing elevations from each of the four monitoring wells were surveyed and the depth to groundwater subtracted to each to obtain a relative groundwater elevation. The water level at Mill Pond was also surveyed.

4.2.4.2 Groundwater Flow Direction

Based upon the survey of the top of well casings, Mill Pond water level measurements, the depth to groundwater measurements and depth to groundwater, the groundwater flow direction is to the south discharging into Mill Pond.

4.3 Sampling and Chemical Analyses and Methods

4.3.1 Soil

Each of the sediment samples were analyzed at Accutest laboratories for:

1. Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B
2. Polynuclear Aromatic Hydrocarbons by EPA Method SW846 8270C.

4.3.2 Sediment

Each of the soil samples were analyzed at Accutest laboratories for:

1. Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B
2. Polynuclear Aromatic Hydrocarbons by EPA Method SW846 8270C.

4.3.3 Groundwater

Each of the groundwater samples were analyzed at Accutest laboratories for:

1. Arsenic, Chromium, Lead and Zinc by EPA Method SW846 6010B
2. Volatile Organic Compounds by EPA Method SW846 8260B.

Each soil and groundwater sample was analyzed in accordance with the MassDEP Compendium of Analytical Methods (CAM).

5.0 EVALUATION AND PRESENTATION OF RESULTS

5.1 Subsurface Conditions

The approximate elevation at the site is between 195 to 210 feet above mean sea level. Topography at the Caouette property is relatively flat, with a slight to moderate grade from northeast to southwest across the site. Surface runoff from the open field areas of the Caouette Property is anticipated to flow to the Mill Pond located along the southern boundary of the Caouette Property. No storm-water collection system is located on the site, and surface runoff is anticipated to flow into the Mill Pond.

5.1.1 Geologic Setting

According to the USGS Geologic Map of Massachusetts (1983), the site is located within the Nashoba Formation of Ordovician to Proterozoic Z age. The Nashoba Formation composed of sillimanite schist and gneiss, partly sulfidic, amphibole biotite gneiss, calc-silicate gneiss and marble.

The surficial geology of the area is glacial and glaciofluvial in origin. To the east of the subject property lie several drumlinoid hills including Great Hill and Faulkner Hill.

The geology of the site was evaluated by reviewing the soil classifications provided in recent drilling logs, which are attached in Appendix A. According to these logs, the site is underlain by approximately four feet of fill in the area of the former factory; below which is found a well graded sand and silty sand to a depth of refusal at 11-14 feet bgs. Bedrock has not been encountered during subsurface investigations at the site, with a maximum drilling depth of 14 feet bgs (MW-4). However, refusal occurred at this depth, indicating a dense stratigraphy.

5.1.2 Hydrogeologic Conditions

Based on surface topography and drainage patterns indicated on the USGS Topographic Map of the Maynard, Massachusetts Quadrangle, groundwater flow in the immediate vicinity of the site is expected to be to the south. Regional groundwater flow is also expected to be generally to the south.

During recent groundwater sampling activities conducted at the site in May 2010, groundwater depths ranged from approximately 3.7 to 6.1 feet below the tops of the well casings. Monitoring well gauging data indicate a southerly groundwater flow direction. The horizontal gradient is approximately 0.75/120 (0.00625) feet per foot. A groundwater contour map for the May 2010 gauging/sampling event is provided as Figure 3.

5.1.3 Verification of Conceptual Site Model

Based upon the results of the Phase II ESA, the source of the contaminants present in soil and sediment are likely to be from the former factory area and consist of PAHs, arsenic, chromium, and lead found in shallow and deep soil and sediment. The migration pathways appear to be limited to the soil in the vadose and saturated zones, and sediment. The only contaminant detected in the groundwater was naphthalene at a concentration of 0.0118 mg/L, well below the MCP Method 1 RCGW-2 reportable concentration of 1 mg/L; surface water was not tested as part of this investigation but could potentially be affected by the sediments. No underground utilities are present at the site. Because these contaminants are generally not very mobile they have not been found in the groundwater and are only minimally found in the shallow sediment. Therefore the exposure pathways are likely to be limited to dermal contact in soil and sediment. Potential sensitive receptors could include flora and fauna and human and animal trespassers.

5.2 Analytical Data

5.2.1 Soil

As depicted in Table 1, of the seven shallow hand auger soil samples (SS-1 through SS-7) collected at a depth of 0-2 feet, SS-2 and SS-3 located within the foundation area of the former factory exhibited concentrations of PAHs and lead in excess of the MassDEP RCS-1 reportable concentrations.

Of the four shallow test boring soil samples (MW-1 through MW-4) collected at a depth of 0-2 feet, MW-1, MW-3 and MW-4 contained arsenic at concentrations in excess of the MassDEP RCS-1 reportable concentration of 20 mg/kg. Additionally, MW-4 exhibited both multiple PAH and lead concentrations in excess of the RCS-1 reportable concentrations. It should be noted that two soil samples (MW-4 (0-2') and SS-2 (0-2')) were analyzed in two runs because the concentrations of certain PAHs in those samples were so high that they could not be reported on the first calibration. So, the samples had to be diluted and re-run. Note the higher RL (reportable limit). So, these samples are considered acceptable and meet presumptive certainty under the MCP.

Additionally, the deeper soil sample collected from MW-1 from 4 to 5 feet contained chromium concentrations exceeding the RCS-1 of 30 mg/kg.

MW-1 is located in the vicinity of the former coal pile near the railroad tracks; MW-2 is located downgradient of the former factory area; MW-3 is located in the northwest corner of the factory area; and MW-4 is located in the former factory foundation area. Figure 2 Site Plan shows the approximate extent of the former factory area. The exact extent is difficult to discern due to the heavy vegetative growth in the area.

These reportable concentrations constitute a 120-day MassDEP reporting condition for the owner.

5.2.2 Sediment

As depicted in Table 2, one of the six sediment samples collected on April 30, 2010 from the area of the eastern shore of Mill Pond, sediment sample SD-1 (0-2'), contained chromium at a concentration of 141 mg/kg. Additionally, sediment sample SD-4 (0-2') contained concentrations of lead at 156 mg/kg and fluorene at 0.991 mg/kg, which exceed the "Freshwater Sediment Screening Criteria" as defined by the MassDEP. Please note that the freshwater sediment screening criteria is not an enforceable regulation but rather a threshold above which would require the performance of a level 2 ecological risk characterization.

5.2.3 Groundwater

Groundwater samples were collected from the four newly installed monitoring wells on May 6, 2010. Based on analytical results for the May 6, 2010 sampling event, and as indicated in Table 3, no volatile organic compounds, arsenic, chromium, lead or zinc were detected at concentrations above the associated MCP RCGW-2 Reportable Concentrations in the groundwater samples collected from monitoring wells MW-1 through MW-4. A low concentration of Naphthalene (0.0118 mg/l) was detected in MW-4. This concentration is well below the reportable concentration of 1 mg/l.

The ORP in the wells ranged from 318 to 390 millivolts; specific conductivity ranged from 131 to 236 μ mhos/cm; and pH ranged from 5.2 to 5.6 from laboratory tests. These parameters while non-specific indicate that a lack of contaminant ions and a neutral pH range exist.

Table 4 is a summary of field bioparameters taken during the low flow sampling process.

6.0 DISCUSSIONS OF FINDINGS AND CONCLUSIONS

6.1 Recognized Environmental Conditions

The findings of PAH and metal concentrations in soil above reportable concentrations from samples in the area of the former factory confirm it as a recognized environmental condition (REC). The presence of chromium and lead in the Mill Pond shallow sediments may be related to this first REC or may indicate that a second REC is present in this area. Further study will be required to confirm or refute this finding.

6.2 Affected Media

As mentioned in sections 5.2.1 and 5.2.2, both soil and sediment were found to be affected media. Various PAHs, arsenic, chromium and lead were detected in soil and chromium and lead were detected in sediment.

6.3 Evaluation of Media Quality

Five shallow and one deep soil samples were found to contain concentrations of metals and/or various PAHs exceeding the MassDEP RCS-1 reportable concentrations. Two shallow sediment samples were found to contain metals in concentrations exceeding the MassDEP Freshwater Sediment Screening Criteria. None of the four groundwater samples analyzed for VOCs or metals were found to contain concentrations exceeding RCGW-1 reportable concentrations.

6.4 Other Concerns (Adequacy of Assessment)

The purpose of this investigation was to evaluate the risk associated with the former factory for future use for recreational purposes. This investigation has identified reportable concentrations of metals and PAHs in soil which require the owner to report these conditions within 120 days of obtaining knowledge. This investigation was not meant to be a comprehensive site assessment nor was it tasked with determining the nature and extent of contamination.

In the remainder of the property, which has been farmed in the past and present, the use of pesticides, as long as they have been applied in accordance with the manufacturer's directions are exempt from reporting under the MCP 310 CMR 40.0317(8) (c). However, these compounds may present a risk of exposure if the area is excavated or modified in any way. It is recommended that certain measures be taken to minimize potential risk to human health and safety and the environment. Please refer to Section 7.0 Recommendations.



7.0 RECOMMENDATIONS

Based upon the data collected during this Phase II Environmental Site Assessment, Groundwater and Environmental Services recommends the following:

Provide the results of the Phase II ESA to the current owners of the property and inform them that based upon the soil sampling results they are required to report to the Massachusetts Department of Environmental Protection (MassDEP) within 120 days that a reportable release of oil or hazardous materials has been detected on their property. This release condition will require them to retain an LSP and perform certain assessment and possible remediation activities under the Massachusetts Contingency Plan (MCP) 310 CMR 40.00000.

If the Town of Acton still chooses to purchase the property any further assessment and/or remediation work must be performed under the MCP and must retain the services of a Licensed Site Professional (LSP).

As mentioned in Section 6.4, the remainder of the property, which has been farmed in the past and present, the use of pesticides, as long as they have been applied in accordance with the manufacturer's directions are exempt from reporting under the MCP 310 CMR 40.0317(8) (c).

If any extensive excavation was to be performed in the area, to construct building foundations, or install underground utilities we would recommend the following:

1. Soil samples should be collected in the area of the proposed excavation and tested for pesticides prior to the excavation work.
2. The sample results should be evaluated by an environmental professional (such as an LSP) to determine if any health and safety concerns exist associated with the excavation (dermal contact with pesticides etc.) and determine the off-site disposal costs associated with pesticide impacted soils.
3. If it is determined that pesticides are present, a soil management plan and health and safety plan should be prepared to ensure the safety of the excavation contractor.
4. If excess soil is generated it should be covered with and stockpiled on polyethylene sheeting to minimize human and environmental exposure.
5. The excavated soil should be tested for disposal parameters and disposed of under a Bill-of-Lading or a hazardous waste manifest.



8.0 REFERENCES

United States Geologic Survey (USGS), *7.5 x 15 Minute Topographic Map of the Maynard, Massachusetts Quadrangle (1:25,000 scale)*, 1987

United States Geological Survey (USGS) State Hydrologic Investigations, Atlas HA-312, *Water Resources of the Assabet River Basin, Central Massachusetts*, by S.J. Pollock, D. F. Farrell and W. W. Caswell, *scale 1:48,000*, 1969.

Phase I Environmental Site Investigation, Caouette Property, 2 Stow Street/90 Martin Street, Acton, MA by O'Reilly, Talbot & Okun Associates, Inc., March 24, 2010

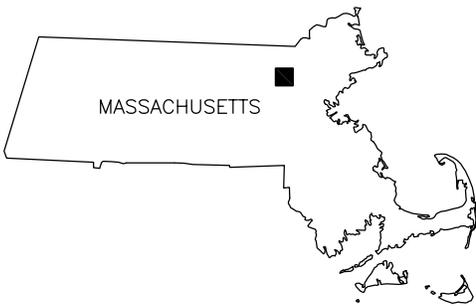
Massachusetts Department of Environmental Protection, *Massachusetts Contingency Plan, 310 CMR 40.000*.

Massachusetts Department of Environmental Protection, *Massachusetts Contingency Plan, Technical Update, Freshwater Sediment Screening Benchmarks for Use Under the Massachusetts Contingency Plan*.

FIGURES



SOURCE: USGS 7.5 MINUTE SERIES
 TOPOGRAPHIC QUADRANGLE 1987
 MAYNARD, MASSACHUSETTS
 CONTOUR INTERVAL = 3 METERS

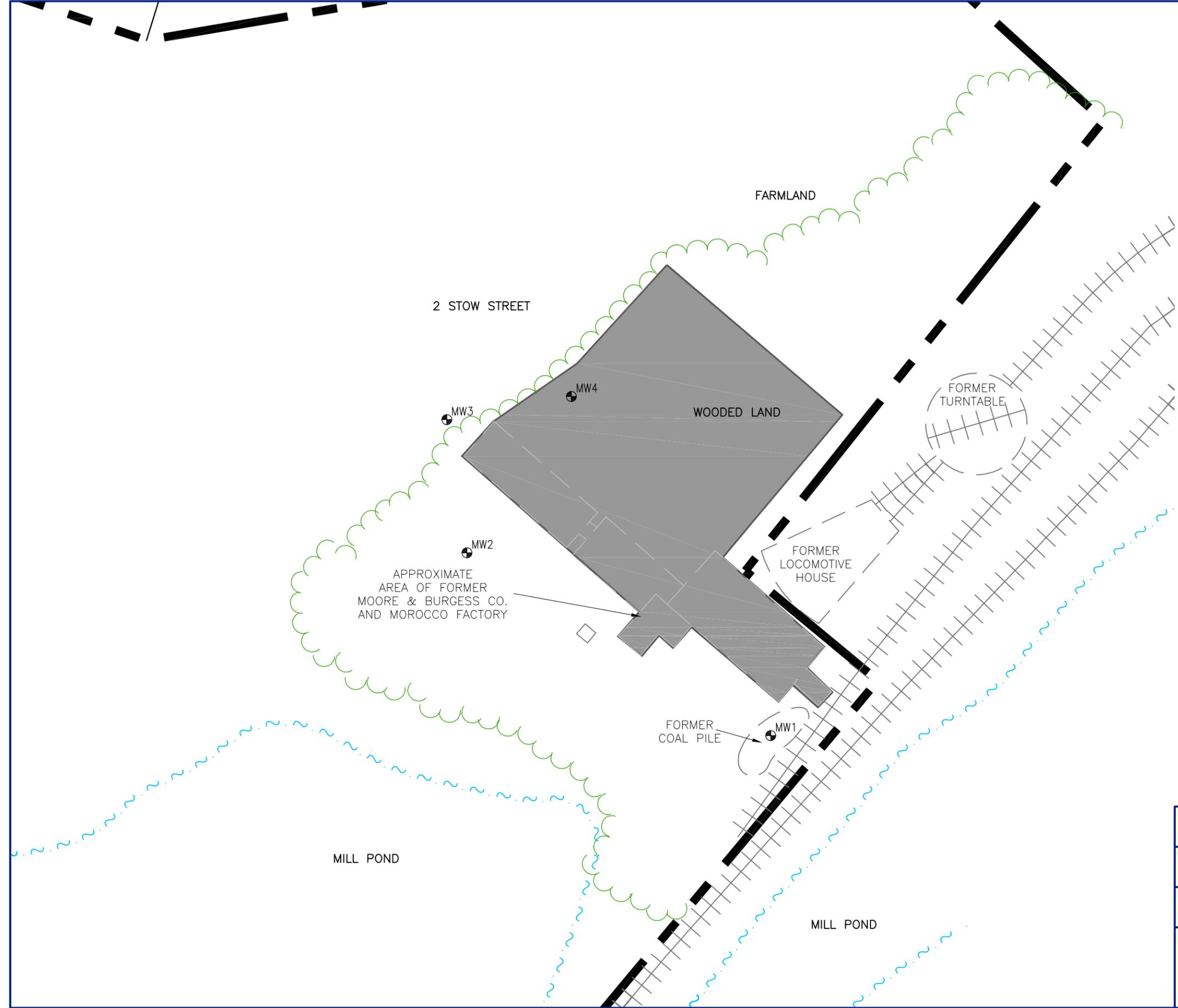


QUADRANGLE LOCATION

DRAFTED BY: W.G.S. (N.J.)	SITE LOCATION MAP	
CHECKED BY: MP		
REVIEWED BY: JW	PORTION OF CAOUILLE PROPERTY 2 STOW STREET/90 MARTIN STREET ACTON, MASSACHUSETTS	
NORTH 	Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD, SUITE 4, WESTFORD, MA 01886	
	SCALE IN FEET 0 2000	DATE 5-26-10

LEGEND

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL



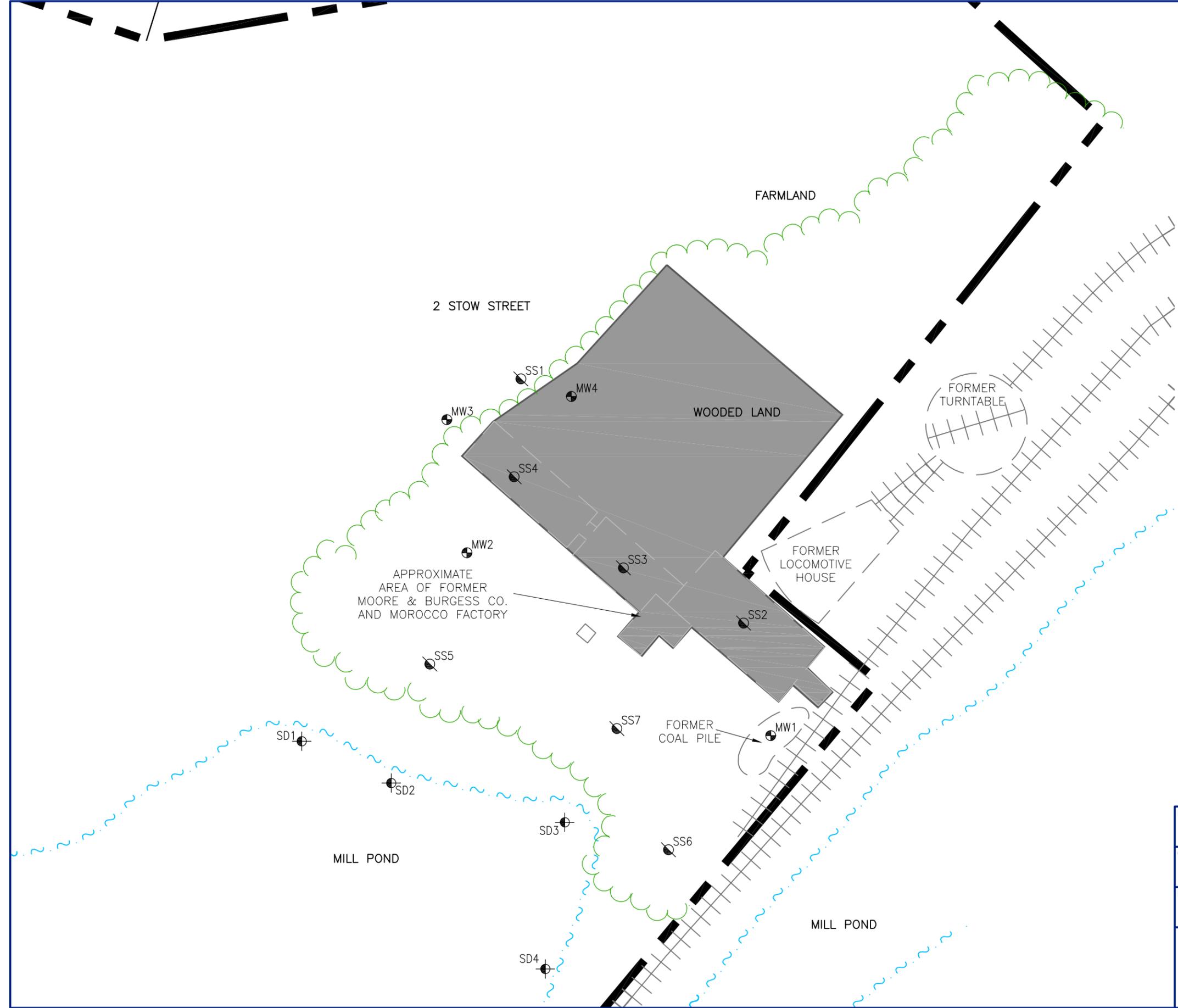
SOURCE:

SITE MAP TAKEN FROM PORTION OF MARCH 24, 2010 PHASE I ENVIRONMENTAL SITE ASSESSMENT PREPARED BY O'REILLY, TALBOT & OKUN ASSOCIATES, INC

DRAFTED BY: W.G.S. (N.J.)	SITE MAP		
CHECKED BY: MP	PORTION OF CAOUCETTE PROPERTY 2 STOW STREET/90 MARTIN STREET ACTON, MASSACHUSETTS		
REVIEWED BY: JW	Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD, SUITE 4, WESTFORD, MA 01886		
NORTH 	SCALE IN FEET 0 APPROXIMATE 60	DATE 6-2-10	FIGURE 2

LEGEND

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- ⊕ SEDIMENT SAMPLE (APRIL 30, 2010)
- ⊕ SOIL SAMPLE (APRIL 30, 2010)



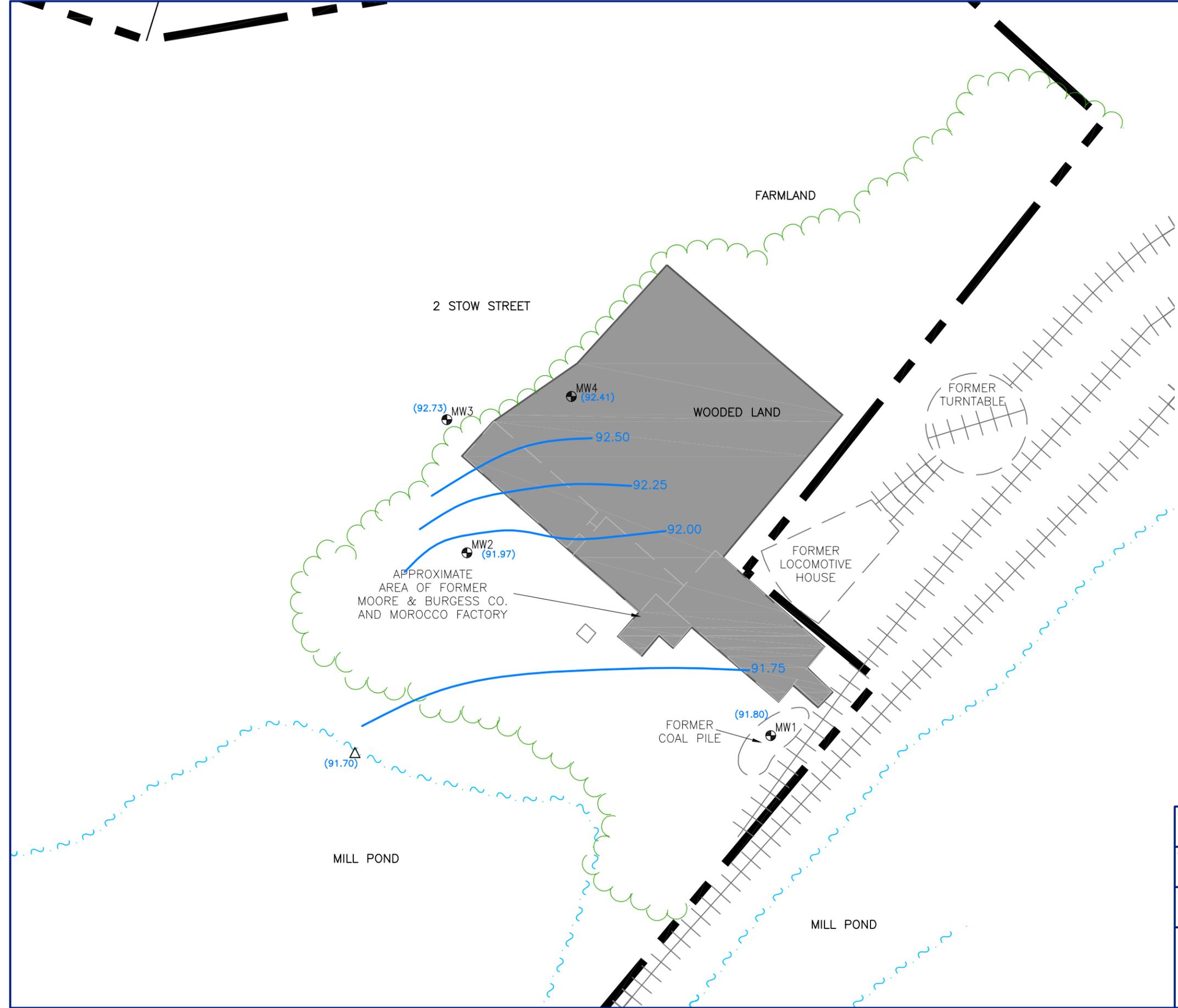
SOURCE:

SITE MAP TAKEN FROM PORTION OF MARCH 24, 2010 PHASE I ENVIRONMENTAL SITE ASSESSMENT PREPARED BY O'REILLY, TALBOT & OKUN ASSOCIATES, INC

DRAFTED BY: W.G.S. (N.J.)	SOIL & SEDIMENT SAMPLE LOCATION MAP	
CHECKED BY: MP	PORTION OF CAOUCETTE PROPERTY 2 STOW STREET/90 MARTIN STREET ACTON, MASSACHUSETTS	
REVIEWED BY: JW	Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD, SUITE 4, WESTFORD, MA 01886	
NORTH 	SCALE IN FEET 0 APPROXIMATE 60	DATE 6-2-10
		FIGURE 3

LEGEND

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- (92.73) GROUNDWATER ELEVATION (feet)
- ~ GROUNDWATER CONTOUR



SOURCE:

SITE MAP TAKEN FROM PORTION OF MARCH 24, 2010 PHASE I ENVIRONMENTAL SITE ASSESSMENT PREPARED BY O'REILLY, TALBOT & OKUN ASSOCIATES, INC

DRAFTED BY: W.G.S. (N.J.)	GROUNDWATER MONITORING MAP MAY 6, 2010		
CHECKED BY: MP	PORTION OF CAOUCETTE PROPERTY 2 STOW STREET/90 MARTIN STREET ACTON, MASSACHUSETTS		
REVIEWED BY: JW	Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD, SUITE 4, WESTFORD, MA 01886		
NORTH 	SCALE IN FEET 0 APPROXIMATE 60	DATE 6-2-10	FIGURE 4

MA DEP - Bureau of Waste Site Cleanup

SITE NAME:

Site Scoring Map: 500 feet & 0.5 Mile Radii

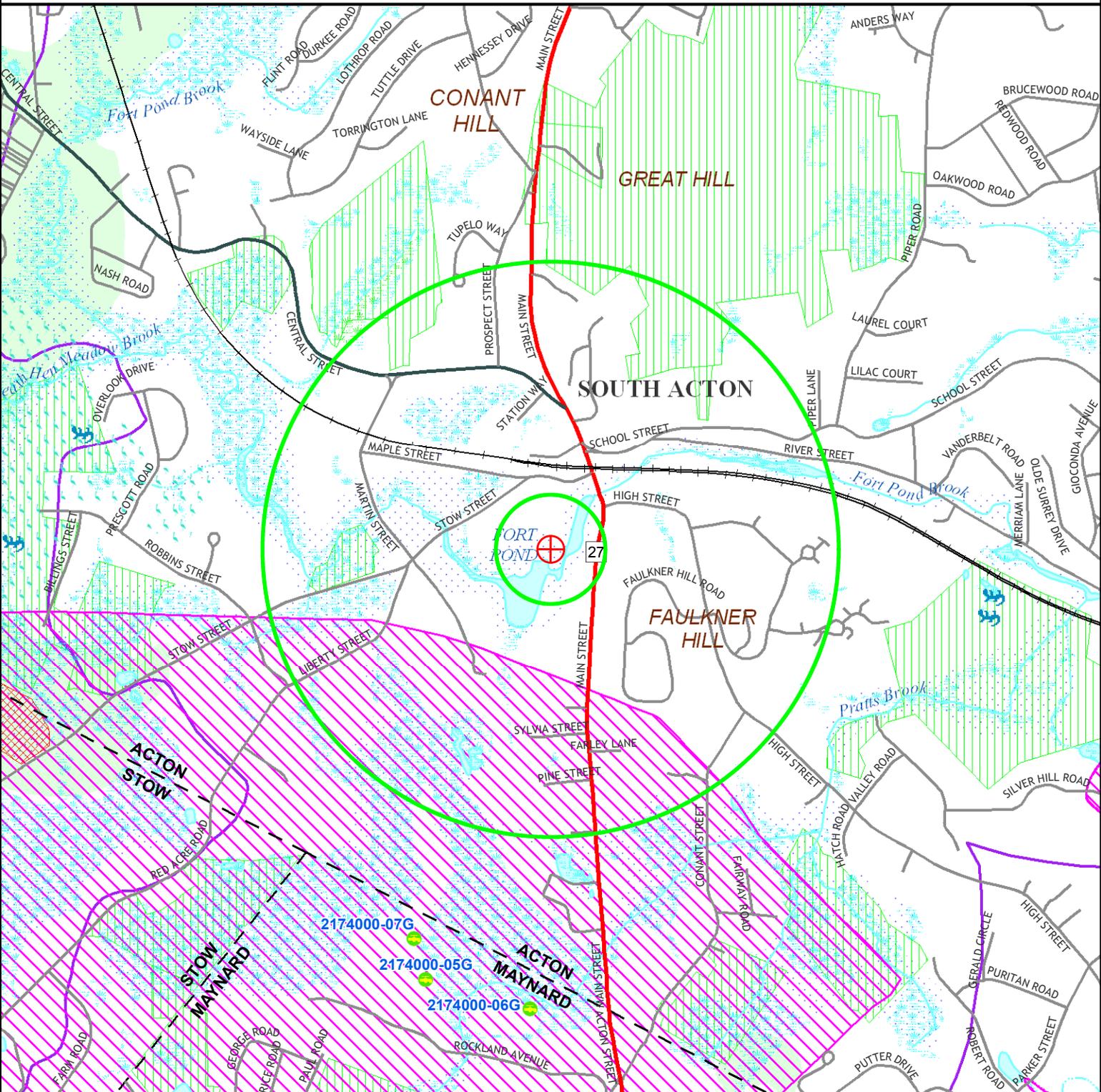
Caouette Property
 2 Stow Street/90 Martin Street
 Acton, MA 01720
 UTM Coordinates 4703553 298073



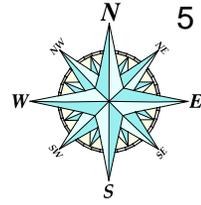
The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



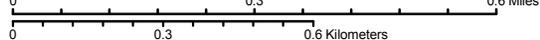
Office of Geographic and Environmental Information
 Massachusetts Executive Office of Energy & Environmental Affairs



Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail	EPA Sole Source Aquifer; FEMA 100-year floodplain		
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct	Public Water Supplies: Ground, Surface, Non Community		
Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams	Approved Zone2; IWPA; Surface Water Supply Zone A		
Potentially Productive Aquifers: Medium, High Yield	Hydrography: Open Water, Reservoir, Tidal Flat		
Non-Potential Drinking Water Source Area: Medium, High Yield	Wetlands: Fresh, Salt, NHESP Wetlands Habitat		
	Cranberry Bog; Protected Open Space; ACEC		
	DEP Permitted Solid Waste Landfills; Certified Vernal Pools		



SCALE 1:15,000



May 27, 2010



TABLES

Table 1
Summary of Soil Analytical Data - April 2010
 Caouette Property
 2 Stow Street/90 Martin Street, Acton, Massachusetts

Sample ID: Sample Depth (feet) : PID Reading (ppmv): Date Sampled:	Reportable Concentration (RC) RCS-1	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4	
		(0-2)	(4-5)	(0-2)	(5-7.5)	(0-2)	(2-4)	(0-2)	(5-7.5)	
		<1	<1	<1	<1	<1	<1	<1	<1	
		4/29/2010	4/29/2010	4/29/2010	4/29/2010	4/29/2010	4/29/2010	4/29/2010	4/29/2010	
Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270C										
Acenaphthene	mg/kg	4	<0.310	<0.370	<0.290	<0.310	<0.290	<0.350	57.1	0.370
Acenaphthylene	mg/kg	1	<0.310	<0.370	<0.290	<0.310	<0.290	<0.350	3.8	<0.270
Anthracene	mg/kg	1000	<0.310	<0.370	<0.290	<0.310	<0.290	<0.350	172.0	0.711
Benzo(a)anthracene	mg/kg	7	0.622	<0.370	<0.290	<0.310	<0.290	<0.350	257.0	1.230
Benzo(a)pyrene	mg/kg	2	0.407	<0.370	<0.290	<0.310	<0.290	<0.350	194.0	0.985
Benzo(b)fluoranthene	mg/kg	7	0.786	<0.370	<0.290	<0.310	0.333	<0.350	161.0	0.788
Benzo(g,h,i) perylene	mg/kg	1000	0.365	<0.370	<0.290	<0.310	0.834	<0.350	105.0	0.600
Benzo(k)fluoranthene	mg/kg	70	0.663	<0.370	<0.290	<0.310	<0.290	<0.350	154.0	0.835
Chrysene	mg/kg	70	0.926	<0.370	<0.290	<0.310	0.325	<0.350	232.0	1.150
Dibenzo(a,h)anthracene	mg/kg	0.7	<0.310	<0.370	<0.290	<0.310	<0.290	<0.350	25.1	<0.270
Fluoranthene	mg/kg	1000	1.080	<0.370	<0.290	<0.310	0.531	<0.350	651.0	2.770
Fluorene	mg/kg	1000	<0.310	<0.370	<0.290	<0.310	<0.290	<0.350	84.4	0.364
Indeno(1,2,3-cd) pyrene	mg/kg	7	0.359	<0.370	<0.290	<0.310	0.498	<0.350	102.0	0.528
2-Methylnaphthalene	mg/kg	0.7	0.392	<0.370	<0.290	<0.310	<0.290	<0.350	29.3	<0.270
Naphthalene	mg/kg	4	0.319	<0.370	<0.290	<0.310	<0.290	<0.350	54.5	0.401
Phenanthrene	mg/kg	10	1.180	<0.370	<0.290	<0.310	<0.290	<0.350	650.0	2.970
Pyrene	mg/kg	1000	1.160	<0.370	<0.290	<0.310	0.451	<0.350	477.0	2.600
Total Metals by EPA Method 6010B										
Arsenic	mg/kg	20	48.6	5.2	12.3	5.2	46.4	9.9	20.6	4.2
Chromium	mg/kg	30	11.6	31.8	9.6	13.2	25.5	20.6	19.6	14.2
Lead	mg/kg	300	139	14.3	171	2.2	164	78.4	361	4.6
Zinc	mg/kg	2500	22.5	34.7	25.8	27.7	79.1	52.0	66.6	28.6

Table 1
Summary of Soil Analytical Data - April 2010
 Caouette Property
 2 Stow Street/90 Martin Street, Acton, Massachusetts

Sample ID:		Reportable	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7
Sample Depth (feet) :		Concentration (RC)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
PID Reading (ppmv):		RCS-1	<1	<1	<1	<1	<1	<1	<1
Date Sampled:			4/30/2010	4/30/2010	4/30/2010	4/30/2010	4/30/2010	4/30/2010	4/30/2010
Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270C									
Acenaphthene	mg/kg	4	<0.310	0.968	<0.360	<0.340	<0.260	<0.380	<0.330
Acenaphthylene	mg/kg	1	<0.310	1.80	0.459	<0.340	<0.260	<0.380	<0.330
Anthracene	mg/kg	1000	<0.310	4.760	1.20	<0.340	<0.260	<0.380	<0.330
Benzo(a)anthracene	mg/kg	7	<0.310	15.40	4.460	0.525	<0.260	<0.380	<0.330
Benzo(a)pyrene	mg/kg	2	<0.310	11.80	3.790	0.406	<0.260	<0.380	<0.330
Benzo(b)fluoranthene	mg/kg	7	<0.310	13.60	3.620	<0.340	<0.260	<0.380	<0.330
Benzo(g,h,i) perylene	mg/kg	1000	<0.310	8.830	3.270	<0.340	<0.260	<0.380	<0.330
Benzo(k)fluoranthene	mg/kg	70	<0.310	6.540	3.090	0.352	<0.260	<0.380	<0.330
Chrysene	mg/kg	70	<0.310	14.10	4.160	0.470	<0.260	<0.380	<0.330
Dibenzo(a,h)anthracene	mg/kg	0.7	<0.310	2.580	<0.360	<0.340	<0.260	<0.380	<0.330
Fluoranthene	mg/kg	1000	<0.310	35.70	11.0	1.30	<0.260	<0.380	<0.330
Fluorene	mg/kg	1000	<0.310	1.370	<0.360	<0.340	<0.260	<0.380	<0.330
Indeno(1,2,3-cd) pyrene	mg/kg	7	<0.310	8.410	2.740	<0.340	<0.260	<0.380	<0.330
2-Methylnaphthalene	mg/kg	0.7	<0.310	<0.390	<0.360	<0.340	<0.260	<0.380	<0.330
Naphthalene	mg/kg	4	<0.310	0.813	<0.360	<0.340	<0.260	<0.380	<0.330
Phenanthrene	mg/kg	10	<0.310	18.80	5.190	1.260	<0.260	<0.380	<0.330
Pyrene	mg/kg	1000	<0.310	30.50	8.970	1.140	<0.260	<0.380	<0.330
Total Metals by EPA Method 6010B									
Arsenic	mg/kg	20	5.7	8.9	6.0	3.6	3.2	6.7	7.0
Chromium	mg/kg	30	15.0	22.5	18.1	13.3	11.3	9.0	4.6
Lead	mg/kg	300	70.0	935	462	11.3	6.1	60.5	32.9
Zinc	mg/kg	2500	76.7	215	137	40.9	16.3	107	20.0

Notes:
 < = Less than laboratory detection limit.
 ppmv = parts per million-volume.
bold = exceeds RCS-1
 mg/kg = Milligrams per Kilogram



Table 2
Summary of Sediment Analytical Data - April 2010
 Caouette Property
 2 Stow Street/90 Martin Street, Acton, Massachusetts

Sample ID:	Sample Depth (feet):	PID Reading (ppmv):	Date Sampled:	SD-1 (0-2)	SD-2 (0-2)	SD-2 (2-4)	SD-3 (0-2)	SD-3 (2-4)	SD-4 (0-2)
Freshwater Sediment				<1	<1	<1	<1	<1	<1
Screening Criteria (FSSC)				<1	<1	<1	<1	<1	<1
Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270C				4/30/2010	4/30/2010	4/30/2010	4/30/2010	4/30/2010	4/30/2010
Acenaphthene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Acenaphthylene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Anthracene	mg/kg	0.057		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Benzo(a)anthracene	mg/kg	0.110		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Benzo(a)pyrene	mg/kg	0.150		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Benzo(b)fluoranthene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Benzo(g,h,i) perylene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Benzo(k)fluoranthene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Chrysene	mg/kg	0.170		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Dibenzo(a,h)anthracene	mg/kg	0.033		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Fluoranthene	mg/kg	0.420		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Fluorene	mg/kg	0.077		<0.700	<0.360	<0.320	<0.410	<0.340	0.991
Indeno(1,2,3-cd) pyrene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
2-Methylnaphthalene	mg/kg	--		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Naphthalene	mg/kg	0.180		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Phenanthrene	mg/kg	0.200		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Pyrene	mg/kg	0.200		<0.700	<0.360	<0.320	<0.410	<0.340	<0.850
Total Metals by EPA Method 6010B									
Arsenic	mg/kg	33		6.9	5.3	5.8	6.5	7.6	15.4
Chromium	mg/kg	110		141	14.3	15.5	55.1	17.8	70.6
Lead	mg/kg	130		60.6	7.0	3.9	17.9	3.1	156
Zinc	mg/kg	460		28.1	19.5	15.5	23.5	19.1	189

Notes:

-- = Standard not established by MassDEP

< = Less than laboratory detection limit

ppmv = parts per million-volume

bold = exceeds FSSC

mg/kg = Milligram per Kilogram



Table 3
Summary of Groundwater Analytical Data - May 2010
 Caouette Property
 2 Stow Street/90 Martin Street, Acton, Massachusetts

Well ID: Sampling Date: Groundwater Elevation:		Reportable Concentration (RC)	MW-1	MW-2	MW-3	MW-4
		RCGW-2	5/6/2010	5/6/2010	5/6/2010	5/6/2010
Volatile Organic Compounds (VOCs) plus MTBE by EPA Method 8260B						
Benzene	mg/L	2	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	mg/L	40	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	5	<0.001	<0.001	<0.001	<0.001
Xylenes (Total)	mg/L	5	<0.001	<0.001	<0.001	<0.001
Methyl tert-butyl ether (MTBE)	mg/L	5	<0.001	<0.001	<0.001	<0.001
Naphthalene	mg/L	1	<0.005	<0.005	<0.005	0.0118
1-2 Dibromoethane (EDB)	mg/L	0.002	<2.0	<2.0	<2.0	<2.0
n-Butylbenzene	mg/L	**	<0.005	<0.005	<0.005	<0.005
sec-Butylbenzene	mg/L	**	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	mg/L	100	<0.005	<0.005	<0.005	<0.005
p-isopropyltoluene	mg/L	**	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	mg/L	**	<0.005	<0.005	<0.005	<0.005
1,1,2-trichloroethane	mg/L	0.9	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/L	100	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	mg/L	1	<0.005	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	mg/L	0.1	<0.001	<0.001	<0.001	<0.001
Tert-Amyl Methy Ether	mg/L	**	<0.002	<0.002	<0.002	<0.002
Tetrachloroethene	mg/L	**	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	mg/L	0.09	<0.001	<0.001	<0.001	<0.001
Trichloroethene	mg/L	0.03	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	mg/L	0.002	<0.001	<0.001	<0.001	<0.001
Remaining VOCs	mg/L	**	ND	ND	ND	ND
Total Metals by EPA Method 6010B						
Arsenic	mg/L	0.9	<0.010	<0.010	<0.010	<0.010
Chromium	mg/L	0.3	<0.010	<0.010	<0.010	<0.010
Lead	mg/L	0.01	<0.005	<0.005	<0.005	<0.005
Zinc	mg/L	0.9	<0.020	0.0394	0.0213	<0.020
General Chemistry Laboratory Parameters						
Oxidation Reduction Potential (ORP)	mv	**	318	364	370	390
Specific Conductivity	umhos/cm	**	131	212	236	139
pH	su	**	5.2	5.6	5.6	5.6

Notes:

- mg/L = Milligrams per Liter
- umhos/cm = micromhos per centimeter
- mv = MilliVolts
- su = Standard units
- bold** = Exceeds RCGW-2
- < = Less than laboratory detection limit
- ** = Standard not established by MassDEP
- ND = Not detected above laboratory reporting limit



Table 4
Summary of Field Bioparameters - May 2010
 Caouette Property
 2 Stow Street/90 Martin Street, Acton, Massachusetts

Monitoring Well	Sampling Date	pH (su)	Dissolved Oxygen (mg/l) mg/L	Temperature (°C)	Conductivity (ms/cm)	ORP (mV)	Turbidity (NTU)
MW-1	5/6/2010	5.69	0.98	10.16	83	-128.6	23.8
MW-2	5/6/2010	5.87	3.02	9.44	135	-14.9	-1.1
MW-3	5/6/2010	5.82	3.09	9.68	150	23.5	-3.2
MW-4	5/6/2010	5.92	2.17	10.40	95	-171.4	20.3

NOTES:

NS: Not Sampled

<#: indicates below method detection limits

mg/l = milligrams per liter

mS/cm = milliSiemens/cm

C = celcius

su = standard units

mV = milliVolts

ORP = Oxidation-Reduction Potential

NTU = Nephelometric Turbidity Unit





APPENDIX A

Subsurface Exploration Logs and Monitoring Well Construction Details



Monitoring Well

ID NO. MW-1

Groundwater and Environmental Services, Inc.

Page 1 of 1

PROJECT: **Caouette Property** SURFACE ELEV.: **NA** TOTAL DEPTH: **11'**
 ADDRESS: **2 Stow St./90 Martin St., Acton, MA** WATER DEPTH: **~6'** CASING EL.: **97.92**
 JOB NO. **1603449** BOREHOLE DIA.: **7.25"** WELL DIA.: **2"**

Logged By: **David Martin** Drilling Method: **Post-Hole Digger/Geoprobe**
 Dates Drilled: **4/29/2010** Sampling Method: **Hand Auger/5' Macro-Cores**
 Drilling Company: **Crawford Drilling Services, LLC** Soil Class. System: **United Soil Classification System (USCS)**
 Drill Rig Type: **Track Mounted Geoprobe** Field Screening: **PID 10.6 eV Lamp (result in ppmv)**

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	COMPLETION DETAILS
0	0-2'	<1	NA	NA	SW: Sand, <5% fines, 5-10% fine rounded gravel, mostly medium-coarse sand, dry, black/brown. 20-25% brittle, angular, brown, black inorganic material (Slag). Wood fragments	SAND	Finished at grade with a 6" roadbox and concrete collar
	2-4'	<1	NA	NA	SW: SAA (Similar As Above)		2" diameter PVC riser 0.5'-3' bgs
	4-5'	<1	NA	NA	SM: Silty Sand, 20-25% moderately plastic fines, 5-10% sub-rounded to sub-angular gravel, mostly fine sand, light brown, moist	SILTY SAND	Bentonite 1-2' bgs
	5-7.5'	<1	NA	36 of 60"	SM: SAA, saturated, rock fragments		Silica sand 2-11' bgs
5	7.5-10'	<1	NA		SM: SAA, dense		Precleared to 5' bgs
	10-11'	<1	NA	12 of 12"	SM: SAA		Groundwater at ~6' bgs
							2" diameter slotted PVC screen 3-11' bgs
							Well set at 11' bgs

Location:
 Northing/Latitude: **NA**
 Easting/Longitude: **NA**
 Horizontal Datum: **Lat/Long**
 Vertical Datum: **NA**

General Comments:
 NSVD= Not Surveyed, NA= Not Applicable, ~=approximately
 "= inch, '= foot, bgs= below ground surface, NR= No Recovery
 ppm= parts per million per volume

Symbol Key:
 Apparent Water Level ▼
 Lab Sample Location ☒



Monitoring Well

ID NO. MW-2

Groundwater and Environmental Services, Inc.

Page 1 of 1

PROJECT: **Caouette Property** SURFACE ELEV.: NA TOTAL DEPTH: **15'**
 ADDRESS: **2 Stow St./90 Martin St., Acton, MA** WATER DEPTH ~5' bgs CASING EL.: **96.62**
 JOB NO. **1603449** BOREHOLE DIA.: **7.25"** WELL DIA.: **2"**

Logged By: **David Martin** Drilling Method: **Post-Hole Digger/Geoprobe**
 Dates Drilled: **4/29/2010** Sampling Method: **Hand Auger/5' Macro-Cores**
 Drilling Company: **Crawford Drilling Services, LLC** Soil Class. System: **United Soil Classification System (USCS)**
 Drill Rig Type: **Track Mounted Geoprobe** Field Screening: **PID 10.6 eV Lamp (result in ppmv)**

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	COMPLETION DETAILS
--------------	-----------------	--------------	-------------	----------	------------------	--------------	--------------------

0	0-2'	<1	NA	NA	SW: Sand, <5% fines, 15-20% fine angular gravel, mostly medium-coarse sand, black/brown, dry. Organics, brick fragments, 15-20% brown/black brittle, angular inorganic material (Slag)	SAND	Finished at grade with a 6" roadbox and concrete collar
	2-4'	<1	NA	NA	SW: Sand, 15-20% low plastic fines, 5-10% sub-rounded gravel, mostly fine-medium sand, brown/orange, moist		2" diameter PVC riser 0.5'-3' bgs
	4-5'	<1	NA	NA	SW: SAA (Similar As Above)		Bentonite 1-2' bgs
5	5-7.5'	<1	NA	42 of 60"	SW: Sand, 10-15% low plastic fines, <5% gravel, mostly medium-coarse sand, brown, saturated		Silica sand 2-11' bgs
	7.5-10'	<1	NA		SM: Silty sand, 20-25% low plastic fines, 10-15% sub-angular gravel, mostly fine-medium sand, brown/orange, saturated	SILTY SAND	Precleared to 5' bgs
10	10-12.5'	<1	NA	48 of 60"	SM: Silty sand, 25-30% low plastic fines, 5-10% fine sub-rounded gravel, mostly fine sand, dense, brown, saturated		Groundwater at ~5' bgs
	12.5-15'	<1	NA		SM: SAA, gray		2" diameter slotted PVC screen 3-11' bgs
15							Well set at 11' bgs
							Boring terminated at 15' bgs

Location:
 Northing/Latitude: NA
 Easting/Longitude: NA
 Horizontal Datum: **Lat/Long**
 Vertical Datum: NA

General Comments:
 NSVD= Not Surveyed, NA= Not Applicable, ~=approximately
 "= inch, '= foot, bgs= below ground surface, NR= No Recovery
 ppm= parts per million per volume

Symbol Key:
 Apparent Water Level ▼
 Lab Sample Location ☒



Monitoring Well

ID NO. MW-3

Groundwater and Environmental Services, Inc.

Page 1 of 1

PROJECT: Caouette Property	SURFACE ELEV.: NA	TOTAL DEPTH: 10'
ADDRESS: 2 Stow St./90 Martin St., Acton, MA	WATER DEPTH ~3' bgs	CASING EL.: 96.40
JOB NO. 1603449	BOREHOLE DIA.: 7.25"	WELL DIA.: 2"

Logged By: David Martin	Drilling Method: Post-Hole Digger/Geoprobe
Dates Drilled: 4/29/2010	Sampling Method: Hand Auger/5' Macro-Cores
Drilling Company: Crawford Drilling Services, LLC	Soil Class. System: United Soil Classification System (USCS)
Drill Rig Type: Track Mounted Geoprobe	Field Screening: PID 10.6 eV Lamp (result in ppmv)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	COMPLETION DETAILS
0	0-2'	<1	NA	NA	SW: Sand, 5-10% moderately plastic fines, <5% gravel, mostly fine to medium sand, dark brown, dry	SAND	Finished at grade with a 6" roadbox and concrete collar
	2-4'	<1	NA	NA	SW: Sand, 5-10% low plastic fines, 15-20% fine rounded gravel, mostly medium-coarse sand, dark brown, saturated		2" diameter PVC riser 0.5'-2' bgs
	4-5'	<1	NA	NA	SW: SAA (Similar As Above)		Bentonite 0.5-1' bgs
	5						Groundwater at ~3' bgs
	5-7.5'	<1	NA	40 of 60"	SM: Silty sand, 15-20% low plastic fines, 10-15% fine sub-rounded gravel, mostly fine-medium sand, light brown/orange, saturated	SILTY SAND	Silica sand 1-10' bgs
	7.5-10'	<1	NA		SM: SAA		Precleared to 5' bgs
10							2" diameter slotted PVC screen 2-10' bgs
							Well set at 10' bgs

Location:

Northing/Latitude: **NA**
 Easting/Longitude: **NA**
 Horizontal Datum: **Lat/Long**
 Vertical Datum: **NA**

General Comments:

NSVD= Not Surveyed, NA= Not Applicable, ~=approximately
 "= inch, '= foot, bgs= below ground surface, NR= No Recovery
 ppm= parts per million per volume

Symbol Key:

Apparent Water Level
 Lab Sample Location



Monitoring Well

ID NO. MW-4

Groundwater and Environmental Services, Inc.

Page 1 of 1

PROJECT: Caouette Property	SURFACE ELEV.: NA	TOTAL DEPTH: 14'
ADDRESS: 2 Stow St./90 Martin St., Acton, MA	WATER DEPTH ~6'	CASING EL.: 97.78
JOB NO. 1603449	BOREHOLE DIA.: 7.25"	WELL DIA.: 2"

Logged By: David Martin	Drilling Method: Post-Hole Digger/Geoprobe
Dates Drilled: 4/29/2010	Sampling Method: Hand Auger/5' Macro-Cores
Drilling Company: Crawford Drilling Services, LLC	Soil Class. System: United Soil Classification System (USCS)
Drill Rig Type: Track Mounted Geoprobe	Field Screening: PID 10.6 eV Lamp (result in ppmv)

Depth (feet)	Sample Interval	Field Screen	Blow Counts	Recovery	SAMPLE LITHOLOGY	Stratigraphy	COMPLETION DETAILS
0	0-2'	<1	NA	NA	SW: Sand, <5% fines, 5-10% coarse angular gravel, mostly medium-coarse sand, dry, brown/black. 20-25% brittle, angular, brown/black inorganic material (Slag), wood fragments	SAND	Finished at grade with a 6" roadbox and concrete collar 2" diameter PVC riser 0.5'-4' bgs Bentonite 2-3' bgs Silica sand 3-14' bgs
	2-4'	<1	NA	NA	SW: SAA (Similar As Above)		
	4-5'	<1	NA	NA	SM: Silty sand, 20-25% moderately plastic fines, 5-10% sub-rounded to sub-gravel gravel, mostly fine sand, light brown, moist	SILTY SAND	Precleared to 5' bgs Groundwater at ~6' bgs 2" diameter slotted PVC screen 4-14' bgs
5	5-7.5'	<1	NA	48 of 60"	SM: Silty sand, 15-20% low plastic fines, 5-10% sub-rounded to sub-angular gravel, mostly fine sand, dense, light brown/orange, saturated		
	7.5-10'	<1	NA		SW: Sand, 5-10% fines, 10-15% sub-angular gravel, mostly coarse sand, light brown/orange, saturated		
10	10-12.5'	<1	NA	24 of 48"	SM: Silty sand, 20-25% low plastic fines, 5-10% fine rounded gravel, mostly fine sand, dense, light brown, saturated		Well set at 14' bgs
	12.5-14'	<1	NA		SM: SAA		

Location:

Northing/Latitude: NA
 Easting/Longitude: NA
 Horizontal Datum: **Lat/Long**
 Vertical Datum: NA

General Comments:

NSVD= Not Surveyed, NA= Not Applicable, ~=approximately
 "= inch, '= foot, bgs= below ground surface, NR= No Recovery
 ppm= parts per million per volume

Symbol Key:

Apparent Water Level ▼
 Lab Sample Location ☒



APPENDIX B

Laboratory Analytical Report – Soil and Sediment (April 28 and 29, 2010)



Technical Report for

Groundwater & Environmental Services

Caouette Property - 2 Stow Street - 90 Martin Street

1603449

Accutest Job Number: M91077

Sampling Dates: 04/29/10 - 04/30/10

Report to:

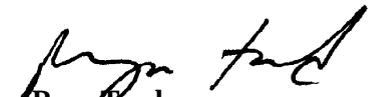
Groundwater & Environmental Services

mpenzo@gesonline.com
pwolti@gesonline.com
ATTN: Mike Penzo

Total number of pages in report: **87**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Test results relate only to samples analyzed.



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Sample Summary

Groundwater & Environmental Services

Job No: M91077

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M91077-1	04/29/10	09:15 DM	05/03/10	SO	Soil	MW-1 (0-2)
M91077-2	04/29/10	09:45 DM	05/03/10	SO	Soil	MW-1 (4-5)
M91077-3	04/29/10	10:50 DM	05/03/10	SO	Soil	MW-4 (0-2)
M91077-4	04/29/10	11:20 DM	05/03/10	SO	Soil	MW-4 (5-7.5)
M91077-5	04/29/10	12:00 DM	05/03/10	SO	Soil	MW-3 (0-2)
M91077-6	04/29/10	12:05 DM	05/03/10	SO	Soil	MW-3 (2-4)
M91077-7	04/29/10	12:30 DM	05/03/10	SO	Soil	MW-2 (0-2)
M91077-8	04/29/10	12:50 DM	05/03/10	SO	Soil	MW-2 (5-7.5)
M91077-9	04/30/10	09:15 DM	05/03/10	SO	Sediment	SD-1 (0-2)
M91077-10	04/30/10	09:30 DM	05/03/10	SO	Sediment	SD-2 (0-2)
M91077-11	04/30/10	09:35 DM	05/03/10	SO	Sediment	SD-2 (2-4)
M91077-12	04/30/10	09:50 DM	05/03/10	SO	Sediment	SD-3 (0-2)
M91077-13	04/30/10	09:55 DM	05/03/10	SO	Sediment	SD-3 (2-4)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: M91077

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M91077-14	04/30/10	10:10 DM	05/03/10	SO	Sediment	SD-4 (0-2)
M91077-15	04/30/10	11:10 DM	05/03/10	SO	Soil	SS-1 (0-2)
M91077-16	04/30/10	12:05 DM	05/03/10	SO	Soil	SS-2 (0-2)
M91077-17	04/30/10	11:30 DM	05/03/10	SO	Soil	SS-3 (0-2)
M91077-18	04/30/10	12:20 DM	05/03/10	SO	Soil	SS-4 (0-2)
M91077-19	04/30/10	10:45 DM	05/03/10	SO	Soil	SS-5 (0-2)
M91077-20	04/30/10	11:45 DM	05/03/10	SO	Soil	SS-6 (0-2)
M91077-21	04/30/10	10:55 DM	05/03/10	SO	Soil	SS-7 (0-2)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Groundwater & Environmental Services

Job No M91077

Site: Caouette Property - 2 Stow Street - 90 Martin Street

Report Date 5/12/2010 3:05:51 PM

21 Sample(s) were collected on between 04/29/2010 and 04/30/2010 and were received at Accutest on 05/03/2010 properly preserved, at 1.7 Deg. C and intact. These Samples received an Accutest job number of M91077. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix SO	Batch ID: OP21297
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- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- M91077-2: Confirmation run for surrogate recoveries.
- M91077-2 for Nitrobenzene-d5: Outside control limits due to possible matrix interference. Confirmed by reanalysis.
- Only PAHs requested.

Matrix SO	Batch ID: OP21299
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91139-IMS, M91139-1MSD were used as the QC samples indicated.
- Only PAHs requested.

Metals By Method SW846 6010B

Matrix SO	Batch ID: MP15182
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- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91077-19DUP, M91077-19MS, M91077-19SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP15182-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Matrix SO	Batch ID: MP15183
------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M90971-1DUP, M90971-1MS, M90971-1SDL were used as the QC samples for metals.
- Only selected metals requested.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO	Batch ID: GN31762
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- Sample(s) M91077-1DUP were used as the QC samples for Solids, Percent.

Matrix SO	Batch ID: GN31763
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- Sample(s) M91077-21DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91077).



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1 (0-2)	Date Sampled:	04/29/10
Lab Sample ID:	M91077-1	Date Received:	05/03/10
Matrix:	SO - Soil	Percent Solids:	81.1
Method:	SW846 8270C SW846 3545		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65407.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	310	ug/kg	
208-96-8	Acenaphthylene	ND	310	ug/kg	
120-12-7	Anthracene	ND	310	ug/kg	
56-55-3	Benzo(a)anthracene	622	310	ug/kg	
50-32-8	Benzo(a)pyrene	407	310	ug/kg	
205-99-2	Benzo(b)fluoranthene	786	310	ug/kg	
191-24-2	Benzo(g,h,i)perylene	365	310	ug/kg	
207-08-9	Benzo(k)fluoranthene	663	310	ug/kg	
218-01-9	Chrysene	926	310	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	310	ug/kg	
206-44-0	Fluoranthene	1080	310	ug/kg	
86-73-7	Fluorene	ND	310	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	359	310	ug/kg	
91-57-6	2-Methylnaphthalene	392	310	ug/kg	
91-20-3	Naphthalene	319	310	ug/kg	
85-01-8	Phenanthrene	1180	310	ug/kg	
129-00-0	Pyrene	1160	310	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1 (0-2)	
Lab Sample ID: M91077-1	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
	Percent Solids: 81.1
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	48.4	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	11.6	0.89	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	139	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	22.5	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-1 (4-5)	
Lab Sample ID: M91077-2	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 66.3
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65446.D	1	05/11/10	AA	05/09/10	OP21297	MSI2198
Run #2 ^a	I65462.D	1	05/12/10	AA	05/09/10	OP21297	MSI2198

Run #	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2	20.2 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	370	ug/kg	
208-96-8	Acenaphthylene	ND	370	ug/kg	
120-12-7	Anthracene	ND	370	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	ug/kg	
50-32-8	Benzo(a)pyrene	ND	370	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	370	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	370	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	370	ug/kg	
218-01-9	Chrysene	ND	370	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	370	ug/kg	
206-44-0	Fluoranthene	ND	370	ug/kg	
86-73-7	Fluorene	ND	370	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
85-01-8	Phenanthrene	ND	370	ug/kg	
129-00-0	Pyrene	ND	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	25% ^b	25% ^b	30-130%
321-60-8	2-Fluorobiphenyl	31%	31%	30-130%
1718-51-0	Terphenyl-d14	35%	33%	30-130%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1 (4-5)	
Lab Sample ID: M91077-2	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
	Percent Solids: 66.3
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.2	2.4	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	31.8	1.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	14.3	2.4	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	34.7	2.4	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-4 (0-2)	
Lab Sample ID: M91077-3	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 81.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65409.D	5	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2	I65444.D	250	05/11/10	AA	05/09/10	OP21297	MSI2198

Run #	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2	20.7 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	57100	1500	ug/kg	
208-96-8	Acenaphthylene	3800	1500	ug/kg	
120-12-7	Anthracene	172000 ^a	74000	ug/kg	
56-55-3	Benzo(a)anthracene	257000 ^a	74000	ug/kg	
50-32-8	Benzo(a)pyrene	194000 ^a	74000	ug/kg	
205-99-2	Benzo(b)fluoranthene	161000 ^a	74000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	105000 ^a	74000	ug/kg	
207-08-9	Benzo(k)fluoranthene	154000 ^a	74000	ug/kg	
218-01-9	Chrysene	232000 ^a	74000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	25100	1500	ug/kg	
206-44-0	Fluoranthene	651000 ^a	74000	ug/kg	
86-73-7	Fluorene	84400 ^a	74000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	102000 ^a	74000	ug/kg	
91-57-6	2-Methylnaphthalene	29300	1500	ug/kg	
91-20-3	Naphthalene	54500	1500	ug/kg	
85-01-8	Phenanthrene	650000 ^a	74000	ug/kg	
129-00-0	Pyrene	477000 ^a	74000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%	41%	30-130%
321-60-8	2-Fluorobiphenyl	65%	66%	30-130%
1718-51-0	Terphenyl-d14	87%	75%	30-130%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-4 (0-2)	
Lab Sample ID: M91077-3	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
	Percent Solids: 81.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	20.6	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	19.6	0.92	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	361	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	66.6	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-4 (5-7.5)	
Lab Sample ID: M91077-4	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 87.5
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65402.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	370	270	ug/kg	
208-96-8	Acenaphthylene	ND	270	ug/kg	
120-12-7	Anthracene	711	270	ug/kg	
56-55-3	Benzo(a)anthracene	1230	270	ug/kg	
50-32-8	Benzo(a)pyrene	985	270	ug/kg	
205-99-2	Benzo(b)fluoranthene	788	270	ug/kg	
191-24-2	Benzo(g,h,i)perylene	600	270	ug/kg	
207-08-9	Benzo(k)fluoranthene	835	270	ug/kg	
218-01-9	Chrysene	1150	270	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	270	ug/kg	
206-44-0	Fluoranthene	2770	270	ug/kg	
86-73-7	Fluorene	364	270	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	528	270	ug/kg	
91-57-6	2-Methylnaphthalene	ND	270	ug/kg	
91-20-3	Naphthalene	401	270	ug/kg	
85-01-8	Phenanthrene	2970	270	ug/kg	
129-00-0	Pyrene	2600	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-4 (5-7.5)	Date Sampled: 04/29/10
Lab Sample ID: M91077-4	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 87.5
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.2	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	14.2	0.92	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	4.6	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	28.6	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3 (0-2)	
Lab Sample ID: M91077-5	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 81.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65403.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #	Initial Weight	Final Volume
Run #1	21.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	290	ug/kg	
208-96-8	Acenaphthylene	ND	290	ug/kg	
120-12-7	Anthracene	ND	290	ug/kg	
56-55-3	Benzo(a)anthracene	ND	290	ug/kg	
50-32-8	Benzo(a)pyrene	ND	290	ug/kg	
205-99-2	Benzo(b)fluoranthene	333	290	ug/kg	
191-24-2	Benzo(g,h,i)perylene	834	290	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	290	ug/kg	
218-01-9	Chrysene	325	290	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	290	ug/kg	
206-44-0	Fluoranthene	531	290	ug/kg	
86-73-7	Fluorene	ND	290	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	498	290	ug/kg	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg	
91-20-3	Naphthalene	ND	290	ug/kg	
85-01-8	Phenanthrene	ND	290	ug/kg	
129-00-0	Pyrene	451	290	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3 (0-2)	Date Sampled: 04/29/10
Lab Sample ID: M91077-5	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 81.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	46.4	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	25.5	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	164	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	79.1	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3 (2-4)	
Lab Sample ID: M91077-6	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 71.2
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65404.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	350	ug/kg	
208-96-8	Acenaphthylene	ND	350	ug/kg	
120-12-7	Anthracene	ND	350	ug/kg	
56-55-3	Benzo(a)anthracene	ND	350	ug/kg	
50-32-8	Benzo(a)pyrene	ND	350	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	350	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	350	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	350	ug/kg	
218-01-9	Chrysene	ND	350	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	350	ug/kg	
206-44-0	Fluoranthene	ND	350	ug/kg	
86-73-7	Fluorene	ND	350	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	350	ug/kg	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg	
91-20-3	Naphthalene	ND	350	ug/kg	
85-01-8	Phenanthrene	ND	350	ug/kg	
129-00-0	Pyrene	ND	350	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	78%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3 (2-4)	Date Sampled: 04/29/10
Lab Sample ID: M91077-6	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 71.2
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	9.9	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	20.6	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	78.4	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	52.0	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2 (0-2)	
Lab Sample ID: M91077-7	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 81.9
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65405.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	290	ug/kg	
208-96-8	Acenaphthylene	ND	290	ug/kg	
120-12-7	Anthracene	ND	290	ug/kg	
56-55-3	Benzo(a)anthracene	ND	290	ug/kg	
50-32-8	Benzo(a)pyrene	ND	290	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	290	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	290	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	290	ug/kg	
218-01-9	Chrysene	ND	290	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	290	ug/kg	
206-44-0	Fluoranthene	ND	290	ug/kg	
86-73-7	Fluorene	ND	290	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	290	ug/kg	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg	
91-20-3	Naphthalene	ND	290	ug/kg	
85-01-8	Phenanthrene	ND	290	ug/kg	
129-00-0	Pyrene	ND	290	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2 (0-2)	Date Sampled: 04/29/10
Lab Sample ID: M91077-7	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 81.9
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	12.3	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	9.6	0.92	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	171	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	25.8	1.8	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2 (5-7.5)	
Lab Sample ID: M91077-8	Date Sampled: 04/29/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 79.8
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65406.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	310	ug/kg	
208-96-8	Acenaphthylene	ND	310	ug/kg	
120-12-7	Anthracene	ND	310	ug/kg	
56-55-3	Benzo(a)anthracene	ND	310	ug/kg	
50-32-8	Benzo(a)pyrene	ND	310	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	310	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	310	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	310	ug/kg	
218-01-9	Chrysene	ND	310	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	310	ug/kg	
206-44-0	Fluoranthene	ND	310	ug/kg	
86-73-7	Fluorene	ND	310	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	310	ug/kg	
91-57-6	2-Methylnaphthalene	ND	310	ug/kg	
91-20-3	Naphthalene	ND	310	ug/kg	
85-01-8	Phenanthrene	ND	310	ug/kg	
129-00-0	Pyrene	ND	310	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2 (5-7.5)	Date Sampled: 04/29/10
Lab Sample ID: M91077-8	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 79.8
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.2	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	13.2	0.99	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	2.2	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	27.7	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SD-1 (0-2)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-9	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	34.6
Method:	SW846 8270C SW846 3545		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65410.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	700	ug/kg	
208-96-8	Acenaphthylene	ND	700	ug/kg	
120-12-7	Anthracene	ND	700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	700	ug/kg	
218-01-9	Chrysene	ND	700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	700	ug/kg	
206-44-0	Fluoranthene	ND	700	ug/kg	
86-73-7	Fluorene	ND	700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	700	ug/kg	
91-57-6	2-Methylnaphthalene	ND	700	ug/kg	
91-20-3	Naphthalene	ND	700	ug/kg	
85-01-8	Phenanthrene	ND	700	ug/kg	
129-00-0	Pyrene	ND	700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%
1718-51-0	Terphenyl-d14	62%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SD-1 (0-2)	Date Sampled: 04/30/10
Lab Sample ID: M91077-9	Date Received: 05/03/10
Matrix: SO - Sediment	Percent Solids: 34.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.9	3.9	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	141	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	60.6	3.9	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	28.1	3.9	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SD-2 (0-2)	
Lab Sample ID: M91077-10	Date Sampled: 04/30/10
Matrix: SO - Sediment	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 68.5
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65411.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-2 (0-2)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-10	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	68.5
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.3	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	14.3	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	7.0	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	19.5	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SD-2 (2-4)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-11	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	78.2
Method:	SW846 8270C SW846 3545		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65412.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	320	ug/kg	
208-96-8	Acenaphthylene	ND	320	ug/kg	
120-12-7	Anthracene	ND	320	ug/kg	
56-55-3	Benzo(a)anthracene	ND	320	ug/kg	
50-32-8	Benzo(a)pyrene	ND	320	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	320	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	320	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	320	ug/kg	
218-01-9	Chrysene	ND	320	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	320	ug/kg	
206-44-0	Fluoranthene	ND	320	ug/kg	
86-73-7	Fluorene	ND	320	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	320	ug/kg	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg	
91-20-3	Naphthalene	ND	320	ug/kg	
85-01-8	Phenanthrene	ND	320	ug/kg	
129-00-0	Pyrene	ND	320	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-2 (2-4)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-11	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	78.2
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.8	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	15.5	1.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	3.9	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	15.5	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SD-3 (0-2)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-12	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	60.7
Method:	SW846 8270C SW846 3545		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65413.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	410	ug/kg	
208-96-8	Acenaphthylene	ND	410	ug/kg	
120-12-7	Anthracene	ND	410	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	ug/kg	
218-01-9	Chrysene	ND	410	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	ug/kg	
206-44-0	Fluoranthene	ND	410	ug/kg	
86-73-7	Fluorene	ND	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	ug/kg	
91-20-3	Naphthalene	ND	410	ug/kg	
85-01-8	Phenanthrene	ND	410	ug/kg	
129-00-0	Pyrene	ND	410	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	63%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-3 (0-2)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-12	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	60.7
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.5	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	55.1	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	17.9	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	23.5	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SD-3 (2-4)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-13	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	73.1
Method:	SW846 8270C SW846 3545		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65414.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	340	ug/kg	
50-32-8	Benzo(a)pyrene	ND	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	340	ug/kg	
218-01-9	Chrysene	ND	340	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	ug/kg	
206-44-0	Fluoranthene	ND	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-3 (2-4)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-13	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	73.1
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.6	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	17.8	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	3.1	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	19.1	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SD-4 (0-2)	
Lab Sample ID: M91077-14	Date Sampled: 04/30/10
Matrix: SO - Sediment	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 28.2
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65415.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	850	ug/kg	
208-96-8	Acenaphthylene	ND	850	ug/kg	
120-12-7	Anthracene	ND	850	ug/kg	
56-55-3	Benzo(a)anthracene	ND	850	ug/kg	
50-32-8	Benzo(a)pyrene	ND	850	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	850	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	850	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	850	ug/kg	
218-01-9	Chrysene	ND	850	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	850	ug/kg	
206-44-0	Fluoranthene	991	850	ug/kg	
86-73-7	Fluorene	ND	850	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	850	ug/kg	
91-57-6	2-Methylnaphthalene	ND	850	ug/kg	
91-20-3	Naphthalene	ND	850	ug/kg	
85-01-8	Phenanthrene	ND	850	ug/kg	
129-00-0	Pyrene	ND	850	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	65%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SD-4 (0-2)	Date Sampled:	04/30/10
Lab Sample ID:	M91077-14	Date Received:	05/03/10
Matrix:	SO - Sediment	Percent Solids:	28.2
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	15.4	4.7	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	70.6	2.4	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	156	4.7	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	189	4.7	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-1 (0-2)		
Lab Sample ID: M91077-15		Date Sampled: 04/30/10
Matrix: SO - Soil		Date Received: 05/03/10
Method: SW846 8270C SW846 3545		Percent Solids: 76.5
Project: Caouette Property - 2 Stow Street - 90 Martin Street		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	I65416.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197

Run #1	Initial Weight	Final Volume
Run #2	20.8 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	310	ug/kg	
208-96-8	Acenaphthylene	ND	310	ug/kg	
120-12-7	Anthracene	ND	310	ug/kg	
56-55-3	Benzo(a)anthracene	ND	310	ug/kg	
50-32-8	Benzo(a)pyrene	ND	310	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	310	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	310	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	310	ug/kg	
218-01-9	Chrysene	ND	310	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	310	ug/kg	
206-44-0	Fluoranthene	ND	310	ug/kg	
86-73-7	Fluorene	ND	310	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	310	ug/kg	
91-57-6	2-Methylnaphthalene	ND	310	ug/kg	
91-20-3	Naphthalene	ND	310	ug/kg	
85-01-8	Phenanthrene	ND	310	ug/kg	
129-00-0	Pyrene	ND	310	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-1 (0-2)	Date Sampled: 04/30/10
Lab Sample ID: M91077-15	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 76.5
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.7	2.3	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	15.0	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	70.0	2.3	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	76.7	2.3	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-2 (0-2)	
Lab Sample ID: M91077-16	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 62.8
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65417.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
Run #2	I65445.D	5	05/11/10	AA	05/09/10	OP21297	MSI2198

Run #	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2	20.5 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	968	390	ug/kg	
208-96-8	Acenaphthylene	1800	390	ug/kg	
120-12-7	Anthracene	4760	390	ug/kg	
56-55-3	Benzo(a)anthracene	15400	390	ug/kg	
50-32-8	Benzo(a)pyrene	11800	390	ug/kg	
205-99-2	Benzo(b)fluoranthene	13600	390	ug/kg	
191-24-2	Benzo(g,h,i)perylene	8830	390	ug/kg	
207-08-9	Benzo(k)fluoranthene	6540	390	ug/kg	
218-01-9	Chrysene	14100	390	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2580	390	ug/kg	
206-44-0	Fluoranthene	35700 ^a	1900	ug/kg	
86-73-7	Fluorene	1370	390	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	8410	390	ug/kg	
91-57-6	2-Methylnaphthalene	ND	390	ug/kg	
91-20-3	Naphthalene	813	390	ug/kg	
85-01-8	Phenanthrene	18800 ^a	1900	ug/kg	
129-00-0	Pyrene	30500 ^a	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%	64%	30-130%
321-60-8	2-Fluorobiphenyl	74%	72%	30-130%
1718-51-0	Terphenyl-d14	82%	76%	30-130%

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-2 (0-2)	Date Sampled: 04/30/10
Lab Sample ID: M91077-16	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 62.8
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	8.9	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	22.5	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	935	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	215	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-3 (0-2)	
Lab Sample ID: M91077-17	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 68.4
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14891.D	1	05/10/10	AA	05/09/10	OP21297	MSS540
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	459	360	ug/kg	
120-12-7	Anthracene	1200	360	ug/kg	
56-55-3	Benzo(a)anthracene	4460	360	ug/kg	
50-32-8	Benzo(a)pyrene	3790	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	3620	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3270	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	3090	360	ug/kg	
218-01-9	Chrysene	4160	360	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
206-44-0	Fluoranthene	11000	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2740	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
85-01-8	Phenanthrene	5190	360	ug/kg	
129-00-0	Pyrene	8970	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	30%		30-130%
321-60-8	2-Fluorobiphenyl	31%		30-130%
1718-51-0	Terphenyl-d14	36%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-3 (0-2)	
Lab Sample ID: M91077-17	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
	Percent Solids: 68.4
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.0	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	18.1	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	462	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	137	2.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-4 (0-2)	
Lab Sample ID: M91077-18	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 72.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14892.D	1	05/10/10	AA	05/09/10	OP21297	MSS540
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	525	340	ug/kg	
50-32-8	Benzo(a)pyrene	406	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	352	340	ug/kg	
218-01-9	Chrysene	470	340	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	ug/kg	
206-44-0	Fluoranthene	1300	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
85-01-8	Phenanthrene	1260	340	ug/kg	
129-00-0	Pyrene	1140	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-4 (0-2)	Date Sampled: 04/30/10
Lab Sample ID: M91077-18	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 72.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.6	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	13.3	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	11.3	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	40.9	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-5 (0-2)	
Lab Sample ID: M91077-19	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 94.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14893.D	1	05/11/10	AA	05/09/10	OP21297	MSS540
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	260	ug/kg	
208-96-8	Acenaphthylene	ND	260	ug/kg	
120-12-7	Anthracene	ND	260	ug/kg	
56-55-3	Benzo(a)anthracene	ND	260	ug/kg	
50-32-8	Benzo(a)pyrene	ND	260	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	260	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	260	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	260	ug/kg	
218-01-9	Chrysene	ND	260	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	260	ug/kg	
206-44-0	Fluoranthene	ND	260	ug/kg	
86-73-7	Fluorene	ND	260	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	260	ug/kg	
91-57-6	2-Methylnaphthalene	ND	260	ug/kg	
91-20-3	Naphthalene	ND	260	ug/kg	
85-01-8	Phenanthrene	ND	260	ug/kg	
129-00-0	Pyrene	ND	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	78%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-5 (0-2)	Date Sampled: 04/30/10
Lab Sample ID: M91077-19	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 94.6
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.2	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	11.3	1.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	6.1	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	16.3	2.0	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-6 (0-2)	
Lab Sample ID: M91077-20	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 66.3
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14894.D	1	05/11/10	AA	05/09/10	OP21297	MSS540
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	71%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-6 (0-2)	Date Sampled: 04/30/10
Lab Sample ID: M91077-20	Date Received: 05/03/10
Matrix: SO - Soil	Percent Solids: 66.3
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.7	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Chromium	9.0	1.1	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Lead	60.5	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²
Zinc	107	2.2	mg/kg	1	05/05/10	05/06/10	HBM SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11730

(2) Prep QC Batch: MP15182

RL = Reporting Limit

Report of Analysis

Client Sample ID: SS-7 (0-2)	
Lab Sample ID: M91077-21	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
Method: SW846 8270C SW846 3545	Percent Solids: 74.3
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I65447.D	1	05/11/10	AA	05/09/10	OP21299	MSI2198
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	330	ug/kg	
208-96-8	Acenaphthylene	ND	330	ug/kg	
120-12-7	Anthracene	ND	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	ug/kg	
218-01-9	Chrysene	ND	330	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	ug/kg	
206-44-0	Fluoranthene	ND	330	ug/kg	
86-73-7	Fluorene	ND	330	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	ug/kg	
91-20-3	Naphthalene	ND	330	ug/kg	
85-01-8	Phenanthrene	ND	330	ug/kg	
129-00-0	Pyrene	ND	330	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	30%		30-130%
321-60-8	2-Fluorobiphenyl	37%		30-130%
1718-51-0	Terphenyl-d14	45%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS-7 (0-2)	
Lab Sample ID: M91077-21	Date Sampled: 04/30/10
Matrix: SO - Soil	Date Received: 05/03/10
	Percent Solids: 74.3
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.0	2.2	mg/kg	1	05/07/10	05/10/10 DA	SW846 6010B ¹	SW846 3050B ²
Chromium	4.6	1.1	mg/kg	1	05/07/10	05/10/10 DA	SW846 6010B ¹	SW846 3050B ²
Lead	32.9	2.2	mg/kg	1	05/07/10	05/10/10 DA	SW846 6010B ¹	SW846 3050B ²
Zinc	20.0	2.2	mg/kg	1	05/07/10	05/10/10 DA	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA11741

(2) Prep QC Batch: MP15183

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: **MADEP MCP Response Action Analytical Report Certification Form**

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M91077

Project Location: Caouette Property - 2 Stow Street - 90 Martin Street MADEP RTN ¹ None

This form provides certifications for the following data set:
M91077-1 through M91077-21

Sample Matrices: Groundwater Soil/Sediment X Drinking Water () Other: () ()

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

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

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

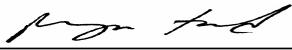
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included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

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

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

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

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

Signature:  Position: Laboratory Director

Printed Name: Reza Tand Date: 05/12/2010

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: M91077

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91077-1 Collected: 29-APR-10 09:15 By: DM Received: 03-MAY-10 By: JB MW-1 (0-2)						
M91077-1	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-1	SW846 6010B	06-MAY-10 14:07	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-1	SW846 8270C	10-MAY-10 18:12	AA	09-MAY-10 MEW		B8270PAH
M91077-2 Collected: 29-APR-10 09:45 By: DM Received: 03-MAY-10 By: JB MW-1 (4-5)						
M91077-2	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-2	SW846 6010B	06-MAY-10 15:21	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-2	SW846 8270C	11-MAY-10 15:35	AA	09-MAY-10 MEW		B8270PAH
M91077-2	SW846 8270C	12-MAY-10 00:21	AA	09-MAY-10 MEW		B8270PAH
M91077-3 Collected: 29-APR-10 10:50 By: DM Received: 03-MAY-10 By: JB MW-4 (0-2)						
M91077-3	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-3	SW846 6010B	06-MAY-10 15:34	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-3	SW846 8270C	10-MAY-10 18:45	AA	09-MAY-10 MEW		B8270PAH
M91077-3	SW846 8270C	11-MAY-10 14:30	AA	09-MAY-10 MEW		B8270PAH
M91077-4 Collected: 29-APR-10 11:20 By: DM Received: 03-MAY-10 By: JB MW-4 (5-7.5)						
M91077-4	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-4	SW846 6010B	06-MAY-10 15:40	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-4	SW846 8270C	10-MAY-10 15:28	AA	09-MAY-10 MEW		B8270PAH
M91077-5 Collected: 29-APR-10 12:00 By: DM Received: 03-MAY-10 By: JB MW-3 (0-2)						
M91077-5	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-5	SW846 6010B	06-MAY-10 15:46	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-5	SW846 8270C	10-MAY-10 16:01	AA	09-MAY-10 MEW		B8270PAH
M91077-6 Collected: 29-APR-10 12:05 By: DM Received: 03-MAY-10 By: JB MW-3 (2-4)						

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: M91077

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91077-6	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-6	SW846 6010B	06-MAY-10 15:52	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-6	SW846 8270C	10-MAY-10 16:34	AA	09-MAY-10 MEW		B8270PAH
M91077-7 Collected: 29-APR-10 12:30 By: DM Received: 03-MAY-10 By: JB MW-2 (0-2)						
M91077-7	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-7	SW846 6010B	06-MAY-10 15:58	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-7	SW846 8270C	10-MAY-10 17:07	AA	09-MAY-10 MEW		B8270PAH
M91077-8 Collected: 29-APR-10 12:50 By: DM Received: 03-MAY-10 By: JB MW-2 (5-7.5)						
M91077-8	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-8	SW846 6010B	06-MAY-10 16:05	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-8	SW846 8270C	10-MAY-10 17:40	AA	09-MAY-10 MEW		B8270PAH
M91077-9 Collected: 30-APR-10 09:15 By: DM Received: 03-MAY-10 By: JB SD-1 (0-2)						
M91077-9	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-9	SW846 6010B	06-MAY-10 16:11	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-9	SW846 8270C	10-MAY-10 19:18	AA	09-MAY-10 MEW		B8270PAH
M91077-10 Collected: 30-APR-10 09:30 By: DM Received: 03-MAY-10 By: JB SD-2 (0-2)						
M91077-10	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-10	SW846 6010B	06-MAY-10 14:13	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-10	SW846 8270C	10-MAY-10 19:51	AA	09-MAY-10 MEW		B8270PAH
M91077-11 Collected: 30-APR-10 09:35 By: DM Received: 03-MAY-10 By: JB SD-2 (2-4)						
M91077-11	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-11	SW846 6010B	06-MAY-10 14:19	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-11	SW846 8270C	10-MAY-10 20:24	AA	09-MAY-10 MEW		B8270PAH

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: M91077

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91077-12 Collected: 30-APR-10 09:50 By: DM Received: 03-MAY-10 By: JB SD-3 (0-2)						
M91077-12	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-12	SW846 6010B	06-MAY-10 14:26	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-12	SW846 8270C	10-MAY-10 20:57	AA	09-MAY-10 MEW		B8270PAH
M91077-13 Collected: 30-APR-10 09:55 By: DM Received: 03-MAY-10 By: JB SD-3 (2-4)						
M91077-13	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-13	SW846 6010B	06-MAY-10 14:32	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-13	SW846 8270C	10-MAY-10 21:29	AA	09-MAY-10 MEW		B8270PAH
M91077-14 Collected: 30-APR-10 10:10 By: DM Received: 03-MAY-10 By: JB SD-4 (0-2)						
M91077-14	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-14	SW846 6010B	06-MAY-10 14:38	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-14	SW846 8270C	10-MAY-10 22:02	AA	09-MAY-10 MEW		B8270PAH
M91077-15 Collected: 30-APR-10 11:10 By: DM Received: 03-MAY-10 By: JB SS-1 (0-2)						
M91077-15	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-15	SW846 6010B	06-MAY-10 14:44	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-15	SW846 8270C	10-MAY-10 22:36	AA	09-MAY-10 MEW		B8270PAH
M91077-16 Collected: 30-APR-10 12:05 By: DM Received: 03-MAY-10 By: JB SS-2 (0-2)						
M91077-16	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-16	SW846 6010B	06-MAY-10 14:50	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-16	SW846 8270C	10-MAY-10 23:08	AA	09-MAY-10 MEW		B8270PAH
M91077-16	SW846 8270C	11-MAY-10 15:02	AA	09-MAY-10 MEW		B8270PAH
M91077-17 Collected: 30-APR-10 11:30 By: DM Received: 03-MAY-10 By: JB SS-3 (0-2)						

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: M91077

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91077-17	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-17	SW846 6010B	06-MAY-10 14:57	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-17	SW846 8270C	10-MAY-10 23:13	AA	09-MAY-10 MEW		B8270PAH
M91077-18 Collected: 30-APR-10 12:20 By: DM Received: 03-MAY-10 By: JB SS-4 (0-2)						
M91077-18	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-18	SW846 6010B	06-MAY-10 15:15	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-18	SW846 8270C	10-MAY-10 23:41	AA	09-MAY-10 MEW		B8270PAH
M91077-19 Collected: 30-APR-10 10:45 By: DM Received: 03-MAY-10 By: JB SS-5 (0-2)						
M91077-19	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-19	SW846 6010B	06-MAY-10 13:08	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-19	SW846 8270C	11-MAY-10 00:09	AA	09-MAY-10 MEW		B8270PAH
M91077-20 Collected: 30-APR-10 11:45 By: DM Received: 03-MAY-10 By: JB SS-6 (0-2)						
M91077-20	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-20	SW846 6010B	06-MAY-10 15:28	HBM	05-MAY-10 EM		AS,CR,PB,ZN
M91077-20	SW846 8270C	11-MAY-10 00:37	AA	09-MAY-10 MEW		B8270PAH
M91077-21 Collected: 30-APR-10 10:55 By: DM Received: 03-MAY-10 By: JB SS-7 (0-2)						
M91077-21	SM21 2540 B MOD.	04-MAY-10	CF			%SOL
M91077-21	SW846 6010B	10-MAY-10 11:08	DA	07-MAY-10 EM		AS,CR,PB,ZN
M91077-21	SW846 8270C	11-MAY-10 16:08	AA	09-MAY-10 MEW		B8270PAH



GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21297-MB	I65399.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197

The QC reported here applies to the following samples:

Method: SW846 8270C

M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	250	ug/kg	
208-96-8	Acenaphthylene	ND	250	ug/kg	
120-12-7	Anthracene	ND	250	ug/kg	
56-55-3	Benzo(a)anthracene	ND	250	ug/kg	
50-32-8	Benzo(a)pyrene	ND	250	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	250	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	250	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	250	ug/kg	
218-01-9	Chrysene	ND	250	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	250	ug/kg	
206-44-0	Fluoranthene	ND	250	ug/kg	
86-73-7	Fluorene	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	250	ug/kg	
91-20-3	Naphthalene	ND	250	ug/kg	
85-01-8	Phenanthrene	ND	250	ug/kg	
129-00-0	Pyrene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
4165-60-0	Nitrobenzene-d5	75%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

Method Blank Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21299-MB	I65441.D	1	05/11/10	AA	05/09/10	OP21299	MSI2198

The QC reported here applies to the following samples:

Method: SW846 8270C

M91077-21

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	250	ug/kg	
208-96-8	Acenaphthylene	ND	250	ug/kg	
120-12-7	Anthracene	ND	250	ug/kg	
56-55-3	Benzo(a)anthracene	ND	250	ug/kg	
50-32-8	Benzo(a)pyrene	ND	250	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	250	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	250	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	250	ug/kg	
218-01-9	Chrysene	ND	250	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	250	ug/kg	
206-44-0	Fluoranthene	ND	250	ug/kg	
86-73-7	Fluorene	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	250	ug/kg	
91-20-3	Naphthalene	ND	250	ug/kg	
85-01-8	Phenanthrene	ND	250	ug/kg	
129-00-0	Pyrene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
4165-60-0	Nitrobenzene-d5	86%	30-130%
321-60-8	2-Fluorobiphenyl	94%	30-130%
1718-51-0	Terphenyl-d14	102%	30-130%

Blank Spike Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21299-BS	I65442.D	1	05/11/10	AA	05/09/10	OP21299	MSI2198

The QC reported here applies to the following samples:

Method: SW846 8270C

M91077-21

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	2480	2010	81	40-140
208-96-8	Acenaphthylene	2480	1570	63	40-140
120-12-7	Anthracene	2480	2090	84	40-140
56-55-3	Benzo(a)anthracene	2480	2370	96	40-140
50-32-8	Benzo(a)pyrene	2480	2180	88	40-140
205-99-2	Benzo(b)fluoranthene	2480	2190	88	40-140
191-24-2	Benzo(g,h,i)perylene	2480	2210	89	40-140
207-08-9	Benzo(k)fluoranthene	2480	2270	92	40-140
218-01-9	Chrysene	2480	2120	86	40-140
53-70-3	Dibenzo(a,h)anthracene	2480	2180	88	40-140
206-44-0	Fluoranthene	2480	2220	90	40-140
86-73-7	Fluorene	2480	2130	86	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2480	2190	88	40-140
91-57-6	2-Methylnaphthalene	2480	2030	82	40-140
91-20-3	Naphthalene	2480	1990	80	40-140
85-01-8	Phenanthrene	2480	1960	79	40-140
129-00-0	Pyrene	2480	2130	86	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	92%	30-130%
1718-51-0	Terphenyl-d14	99%	30-130%

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: M91077

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21297-BS	I65400.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197
OP21297-BSD	I65401.D	1	05/10/10	AA	05/09/10	OP21297	MSI2197

The QC reported here applies to the following samples:

Method: SW846 8270C

M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	2490	1590	64	1780	72	11	40-140/30
208-96-8	Acenaphthylene	2490	1240	50	1390	56	11	40-140/30
120-12-7	Anthracene	2490	1640	66	1870	75	13	40-140/30
56-55-3	Benzo(a)anthracene	2490	1830	74	2100	84	14	40-140/30
50-32-8	Benzo(a)pyrene	2490	1700	68	1970	79	15	40-140/30
205-99-2	Benzo(b)fluoranthene	2490	1730	70	2070	83	18	40-140/30
191-24-2	Benzo(g,h,i)perylene	2490	1720	69	1980	80	14	40-140/30
207-08-9	Benzo(k)fluoranthene	2490	1850	74	2020	81	9	40-140/30
218-01-9	Chrysene	2490	1640	66	1890	76	14	40-140/30
53-70-3	Dibenzo(a,h)anthracene	2490	1740	70	2000	80	14	40-140/30
206-44-0	Fluoranthene	2490	1710	69	1960	79	14	40-140/30
86-73-7	Fluorene	2490	1650	66	1880	76	13	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	2490	1730	70	1990	80	14	40-140/30
91-57-6	2-Methylnaphthalene	2490	1630	66	1800	72	10	40-140/30
91-20-3	Naphthalene	2490	1600	64	1790	72	11	40-140/30
85-01-8	Phenanthrene	2490	1550	62	1770	71	13	40-140/30
129-00-0	Pyrene	2490	1710	69	1970	79	14	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	64%	70%	30-130%
321-60-8	2-Fluorobiphenyl	70%	77%	30-130%
1718-51-0	Terphenyl-d14	75%	85%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91077

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21299-MS	I65451.D	1	05/11/10	AA	05/09/10	OP21299	MSI2198
OP21299-MSD	I65452.D	1	05/11/10	AA	05/09/10	OP21299	MSI2198
M91139-1	I65453.D	1	05/11/10	AA	05/09/10	OP21299	MSI2198

The QC reported here applies to the following samples:

Method: SW846 8270C

M91077-21

CAS No.	Compound	M91139-1 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		3210	2130	66	2030	65	5	40-140/30
208-96-8	Acenaphthylene	ND		3210	1670	52	1610	51	4	40-140/30
120-12-7	Anthracene	ND		3210	2270	71	2160	69	5	40-140/30
56-55-3	Benzo(a)anthracene	ND		3210	2570	80	2440	78	5	40-140/30
50-32-8	Benzo(a)pyrene	ND		3210	2320	72	2210	71	5	40-140/30
205-99-2	Benzo(b)fluoranthene	ND		3210	2370	74	2280	73	4	40-140/30
191-24-2	Benzo(g,h,i)perylene	ND		3210	2470	77	2370	76	4	40-140/30
207-08-9	Benzo(k)fluoranthene	ND		3210	2500	78	2380	76	5	40-140/30
218-01-9	Chrysene	ND		3210	2290	71	2170	69	5	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		3210	2350	73	2270	73	3	40-140/30
206-44-0	Fluoranthene	ND		3210	2430	76	2340	75	4	40-140/30
86-73-7	Fluorene	ND		3210	2330	73	2200	70	6	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		3210	2400	75	2270	73	6	40-140/30
91-57-6	2-Methylnaphthalene	ND		3210	2100	65	2020	65	4	40-140/30
91-20-3	Naphthalene	ND		3210	2030	63	1950	62	4	40-140/30
85-01-8	Phenanthrene	ND		3210	2140	67	2070	66	3	40-140/30
129-00-0	Pyrene	ND		3210	2380	74	2310	74	3	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	M91139-1	Limits
4165-60-0	Nitrobenzene-d5	60%	59%	64%	30-130%
321-60-8	2-Fluorobiphenyl	70%	67%	74%	30-130%
1718-51-0	Terphenyl-d14	81%	78%	83%	30-130%

Semivolatiles Internal Standard Area Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Check Std: MSI2197-CC2181	Injection Date: 05/10/10
Lab File ID: I65397.D	Injection Time: 12:43
Instrument ID: GCMSI	Method: SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	132413	5.27	519436	6.56	266253	8.99	458278	11.51	435805	16.47	396592	19.01
Upper Limit ^a	264826	5.77	1038872	7.06	532506	9.49	916556	12.01	871610	16.97	793184	19.51
Lower Limit ^b	66207	4.77	259718	6.06	133127	8.49	229139	11.01	217903	15.97	198296	18.51

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	123132	5.27	461627	6.56	237489	8.99	396052	11.50	401755	16.46	383577	19.01
OP21297-MB	152918	5.28	604322	6.56	316206	8.99	497955	11.50	480186	16.46	453751	19.01
OP21297-BS	145520	5.27	579063	6.56	295922	8.98	493302	11.50	459764	16.46	423347	19.00
OP21297-BSD	143473	5.27	565504	6.56	291610	8.98	482266	11.50	445427	16.46	413000	19.01
M91077-4	141264	5.28	552053	6.56	281861	8.98	445516	11.50	404120	16.46	378847	19.00
M91077-5	137036	5.27	536950	6.56	276606	8.98	440401	11.49	386690	16.46	360146	19.00
M91077-6	126932	5.27	490411	6.56	249807	8.98	397143	11.49	370028	16.46	348801	19.00
M91077-7	126947	5.28	492320	6.56	254024	8.98	404883	11.49	365912	16.46	342689	19.00
M91077-8	122807	5.28	471521	6.56	239933	8.98	374803	11.49	333656	16.46	315164	19.00
M91077-1	132784	5.27	512671	6.56	259912	8.98	408502	11.49	378612	16.46	393400	19.01
M91077-3	114852	5.27	436533	6.56	229283	8.99	318691	11.53	334152	16.55	525170	19.12
M91077-9	121806	5.27	475478	6.56	247959	8.98	399391	11.50	355187	16.46	371711	19.01
M91077-10	127294	5.27	503062	6.55	255889	8.98	407666	11.49	364431	16.46	364326	19.00
M91077-11	130488	5.27	511807	6.55	264598	8.98	423404	11.49	379483	16.46	369168	19.00
M91077-12	121233	5.27	477243	6.55	246471	8.98	406839	11.49	373601	16.46	377216	19.00
M91077-13	125916	5.27	485417	6.55	254659	8.98	403730	11.49	367121	16.46	369051	19.00
M91077-14	124260	5.27	487255	6.56	253634	8.98	408855	11.49	364767	16.46	370440	19.00
M91077-15	125667	5.27	503136	6.55	261430	8.98	422938	11.49	384421	16.46	389278	19.00
M91077-16	118143	5.27	458674	6.55	237588	8.98	378885	11.50	325786	16.48	394900	19.04
ZZZZZZ	116650	5.27	456922	6.55	238964	8.98	388285	11.49	374284	16.46	436098	19.00
ZZZZZZ	112734	5.27	443399	6.55	235052	8.98	379917	11.49	366707	16.46	424318	19.00
ZZZZZZ	109073	5.27	434462	6.55	226584	8.98	360500	11.49	340618	16.46	408220	19.01
ZZZZZZ	118897	5.27	468709	6.55	241186	8.98	391617	11.49	390491	16.46	466579	19.00
ZZZZZZ	106893	5.27	417909	6.55	217584	8.98	353644	11.49	341474	16.46	410943	19.01
ZZZZZZ	111300	5.27	433625	6.55	228158	8.98	371120	11.49	373299	16.46	457627	19.01
ZZZZZZ	110413	5.26	431158	6.55	225608	8.98	368538	11.49	377246	16.46	441862	19.01
ZZZZZZ	106350	5.27	410584	6.55	217648	8.98	359523	11.50	364635	16.46	422193	19.01
ZZZZZZ	125013	5.27	484581	6.55	260319	8.98	447233	11.50	467915	16.46	508945	19.01
ZZZZZZ	124329	5.27	479571	6.55	255123	8.98	445256	11.50	458974	16.46	459799	19.01

- IS 1 = 1,4-Dichlorobenzene-d4
- IS 2 = Naphthalene-d8
- IS 3 = Acenaphthene-D10
- IS 4 = Phenanthrene-d10
- IS 5 = Chrysene-d12

5.5.1
5

Semivolatile Internal Standard Area Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Check Std: MSI2197-CC2181	Injection Date: 05/10/10
Lab File ID: I65397.D	Injection Time: 12:43
Instrument ID: GCMSI	Method: SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT										

IS 2 = Perylene-d12

- (a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
- (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

5.5.1
5

Semivolatiles Internal Standard Area Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Check Std: MSI2198-CC2181	Injection Date: 05/11/10
Lab File ID: I65440.D	Injection Time: 12:18
Instrument ID: GCMSI	Method: SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	95766	5.27	377045	6.55	200591	8.98	341681	11.50	321971	16.46	315037	19.01
Upper Limit ^a	191532	5.77	754090	7.05	401182	9.48	683362	12.00	643942	16.96	630074	19.51
Lower Limit ^b	47883	4.77	188523	6.05	100296	8.48	170841	11.00	160986	15.96	157519	18.51

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP21299-MB	108525	5.28	425552	6.56	230154	8.98	388891	11.50	383534	16.46	356480	19.00
OP21299-BS	107773	5.27	422958	6.56	222391	8.98	384435	11.50	369244	16.46	358793	19.01
ZZZZZZ	117648	5.27	461795	6.56	248373	8.98	420392	11.49	414871	16.46	411298	19.01
M91077-3	99851	5.27	387091	6.55	205315	8.98	338000	11.49	349250	16.46	362407	19.00
M91077-16	103880	5.27	402041	6.55	215274	8.98	360679	11.49	356475	16.46	347848	19.01
M91077-2	109610	5.27	431525	6.55	233983	8.98	377568	11.49	359571	16.46	322788	19.01
M91077-21	109957	5.27	442854	6.55	234409	8.98	394362	11.49	370219	16.46	332386	19.01
ZZZZZZ	110524	5.27	434199	6.55	235688	8.98	392873	11.49	387349	16.46	356037	19.00
ZZZZZZ	111936	5.27	452918	6.55	240262	8.98	405285	11.49	382038	16.46	351412	19.00
ZZZZZZ	113392	5.27	447289	6.55	238909	8.98	404971	11.49	383139	16.46	343963	19.00
OP21299-MS	111100	5.27	446508	6.55	232436	8.98	412166	11.50	388281	16.46	353018	19.00
OP21299-MSD	117495	5.27	462849	6.55	244849	8.98	420233	11.49	392789	16.46	355594	19.00
M91139-1	114152	5.27	443638	6.55	238293	8.98	400494	11.49	398108	16.46	366841	19.00
OP21310-MB	135613	5.27	536038	6.55	287784	8.98	483172	11.49	478041	16.46	471127	19.00
OP21310-BS	140474	5.27	549722	6.55	289725	8.98	509534	11.49	478092	16.46	457997	19.00
M90925-1	163390	5.27	641483	6.55	341291	8.98	560227	11.49	489658	16.46	442480	19.00
ZZZZZZ	149015	5.27	589036	6.55	318668	8.98	539210	11.49	531171	16.46	484627	19.00
ZZZZZZ	156241	5.27	619716	6.55	335003	8.98	561472	11.49	519951	16.46	465508	19.00
ZZZZZZ	150353	5.27	597761	6.55	324022	8.98	546981	11.49	511299	16.46	461376	19.00
ZZZZZZ	154260	5.27	610503	6.55	325184	8.98	535943	11.49	509843	16.46	481707	19.00
M91077-2 ^c	104453	5.27	401032	6.55	214112	8.98	353596	11.49	347102	16.46	330748	19.00

- IS 1 = 1,4-Dichlorobenzene-d4
- IS 2 = Naphthalene-d8
- IS 3 = Acenaphthene-D10
- IS 4 = Phenanthrene-d10
- IS 5 = Chrysene-d12
- IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
 (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
 (c) Confirmation run for surrogate recoveries.

5.5.2
 5

Semivolatile Internal Standard Area Summary

Job Number: M91077
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Check Std: MSS540-CC534	Injection Date: 05/10/10
Lab File ID: S14876.D	Injection Time: 16:10
Instrument ID: GCMSS	Method: SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	158810	5.60	690839	6.93	378311	9.10	643858	11.27	705406	15.61	657592	17.83
Upper Limit ^a	317620	6.10	1381678	7.43	756622	9.60	1287716	11.77	1410812	16.11	1315184	18.33
Lower Limit ^b	79405	5.10	345420	6.43	189156	8.60	321929	10.77	352703	15.11	328796	17.33

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	152934	5.60	627187	6.93	321408	9.09	539850	11.27	516538	15.60	482341	17.83
ZZZZZZ	144524	5.60	595253	6.93	305884	9.09	501161	11.26	484009	15.60	444147	17.83
ZZZZZZ	153310	5.60	624034	6.93	314948	9.09	522760	11.26	515934	15.60	474322	17.83
ZZZZZZ	143970	5.60	588930	6.93	300885	9.09	506025	11.26	504293	15.60	476963	17.82
ZZZZZZ	153509	5.59	617833	6.93	315683	9.09	532059	11.26	516974	15.60	477039	17.82
ZZZZZZ	145662	5.60	606116	6.93	305678	9.09	512168	11.26	504012	15.60	465244	17.82
ZZZZZZ	148402	5.59	601177	6.93	308892	9.09	521187	11.26	504026	15.60	455317	17.82
ZZZZZZ	150415	5.59	604370	6.93	312232	9.09	517429	11.26	508874	15.60	473817	17.82
ZZZZZZ	154916	5.59	612911	6.92	313986	9.09	523223	11.26	515625	15.59	471573	17.82
ZZZZZZ	144572	5.59	588537	6.92	306695	9.09	507905	11.26	503026	15.59	472302	17.82
ZZZZZZ	146873	5.59	596147	6.92	310511	9.09	508278	11.26	483838	15.59	446616	17.82
ZZZZZZ	176265	5.59	697754	6.92	363365	9.09	609978	11.26	573086	15.59	530846	17.82
ZZZZZZ	152257	5.59	620707	6.92	315691	9.09	524795	11.26	506439	15.59	473253	17.82
ZZZZZZ	166509	5.59	664760	6.92	340825	9.09	572789	11.26	542970	15.59	506422	17.82
M91077-17	160307	5.59	639045	6.92	337652	9.09	555941	11.26	611723	15.60	608217	17.83
M91077-18	157737	5.59	636956	6.92	333230	9.09	544178	11.26	524163	15.59	539864	17.82
M91077-19	155902	5.59	634627	6.92	328331	9.09	531701	11.26	526895	15.59	515197	17.82
M91077-20	158562	5.59	640347	6.92	335655	9.09	557078	11.26	541146	15.59	552232	17.82
OP21293-MB	164364	5.59	668290	6.92	360965	9.09	627053	11.26	655786	15.59	645200	17.82
OP21293-BS	175658	5.59	783176	6.92	415592	9.09	711885	11.26	751557	15.60	742031	17.82
ZZZZZZ	142545	5.59	573785	6.92	313066	9.09	545579	11.26	580715	15.59	557347	17.82
ZZZZZZ	151349	5.59	625449	6.92	341207	9.09	591211	11.26	638401	15.59	624325	17.82
ZZZZZZ	158767	5.59	670430	6.92	357641	9.09	628642	11.26	664278	15.59	636746	17.82

- IS 1 = 1,4-Dichlorobenzene-d4
- IS 2 = Naphthalene-d8
- IS 3 = Acenaphthene-D10
- IS 4 = Phenanthrene-d10
- IS 5 = Chrysene-d12
- IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
 (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

5.5.3
5

Semivolatiles Surrogate Recovery Summary

Job Number: M91077

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Method: SW846 8270C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M91077-1	I65407.D	61.0	68.0	73.0
M91077-2	I65462.D	25.0* a	31.0	33.0
M91077-2	I65446.D	25.0* a	31.0	35.0
M91077-3	I65444.D	41.0	66.0	75.0
M91077-3	I65409.D	63.0	65.0	87.0
M91077-4	I65402.D	70.0	78.0	84.0
M91077-5	I65403.D	69.0	73.0	81.0
M91077-6	I65404.D	67.0	72.0	78.0
M91077-7	I65405.D	63.0	69.0	76.0
M91077-8	I65406.D	63.0	70.0	75.0
M91077-9	I65410.D	55.0	57.0	62.0
M91077-10	I65411.D	65.0	67.0	70.0
M91077-11	I65412.D	71.0	80.0	87.0
M91077-12	I65413.D	61.0	63.0	70.0
M91077-13	I65414.D	67.0	75.0	85.0
M91077-14	I65415.D	61.0	64.0	65.0
M91077-15	I65416.D	62.0	70.0	77.0
M91077-16	I65445.D	64.0	72.0	76.0
M91077-16	I65417.D	72.0	74.0	82.0
M91077-17	S14891.D	30.0	31.0	36.0
M91077-18	S14892.D	67.0	67.0	74.0
M91077-19	S14893.D	69.0	72.0	78.0
M91077-20	S14894.D	63.0	66.0	71.0
M91077-21	I65447.D	30.0	37.0	45.0
OP21297-BS	I65400.D	64.0	70.0	75.0
OP21297-BSD	I65401.D	70.0	77.0	85.0
OP21297-MB	I65399.D	75.0	82.0	89.0
OP21299-BS	I65442.D	80.0	92.0	99.0
OP21299-MB	I65441.D	86.0	94.0	102.0
OP21299-MS	I65451.D	60.0	70.0	81.0
OP21299-MSD	I65452.D	59.0	67.0	78.0

Surrogate Compounds

Recovery Limits

S1 = Nitrobenzene-d5
 S2 = 2-Fluorobiphenyl
 S3 = Terphenyl-d14

30-130%
 30-130%
 30-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

5.6.1
5



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91077
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15182
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/05/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.91	2.9		
Antimony	2.0	.4	.5		
Arsenic	2.0	.36	.5	0.15	<2.0
Barium	20	.095	.3		
Beryllium	0.40	.004	.074		
Boron	10	.08	.54		
Cadmium	0.40	.018	.051		
Calcium	500	.63	1.3		
Chromium	1.0	.054	.082	0.057	<1.0
Cobalt	5.0	.042	.15		
Copper	2.5	.083	.16		
Iron	10	.66	1.6		
Lead	2.0	.15	.28	0.018	<2.0
Magnesium	500	.37	.48		
Manganese	1.5	.012	.11		
Molybdenum	10	.17	.23		
Nickel	4.0	.11	.2		
Potassium	500	5.6	5.7		
Selenium	2.0	.47	.71		
Silver	0.50	.056	.079		
Sodium	500	23	54		
Strontium	1.0	.046	.081		
Thallium	2.0	.38	.47		
Tin	10	.74	.62		
Titanium	5.0	.22	.24		
Vanadium	3.0	.38	.71		
Zinc	2.0	.11	.34	0.16	<2.0

Associated samples MP15182: M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15182
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/05/10 05/05/10

Metal	M91077-19		Spike/lot MPICP	% Rec	QC Limits	M91077-19		RPD	QC Limits
	Original	MS				Original	DUP		
Aluminum									
Antimony									
Arsenic	3.2	49.4	48.5	95.3	75-125	3.2	3.3	3.1	0-20
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium	11.3	58.3	48.5	96.9	75-125	11.3	12.5	10.1	0-20
Cobalt									
Copper									
Iron									
Lead	6.1	97.5	97	94.2	75-125	6.1	6.1	0.0	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	16.3	60.6	48.5	91.4	75-125	16.3	15.8	3.1	0-20

Associated samples MP15182: M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15182
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/05/10 05/05/10

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	47.9	50	95.8	80-120	49.4	50	98.8	3.1	20
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium	47.7	50	95.4	80-120	48.9	50	97.8	2.5	20
Cobalt									
Copper									
Iron									
Lead	95.3	100	95.3	80-120	97.8	100	97.8	2.6	20
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	47.0	50	94.0	80-120	48.2	50	96.4	2.5	20

Associated samples MP15182: M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15182
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/05/10

Metal	LCS Result	Spikelot MPLCS68	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	135	138	97.8	83-117
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	103	105	98.1	80-119
Cobalt				
Copper				
Iron				
Lead	136	144	94.4	81-119
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	214	223	96.0	80-120

Associated samples MP15182: M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15182
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/05/10

Metal	M91077-19 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	31.7	40.4	27.4 (a)	0-10
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	113	119	5.4	0-10
Cobalt				
Copper				
Iron				
Lead	60.9	69.2	13.7 (a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	163	171	4.9	0-10

Associated samples MP15182: M91077-1, M91077-2, M91077-3, M91077-4, M91077-5, M91077-6, M91077-7, M91077-8, M91077-9, M91077-10, M91077-11, M91077-12, M91077-13, M91077-14, M91077-15, M91077-16, M91077-17, M91077-18, M91077-19, M91077-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91077
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/07/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.7	.9		
Antimony	2.0	.079	.12		
Arsenic	2.0	.057	.13	-0.080	<2.0
Barium	20	.2	.2		
Beryllium	0.40	.015	.015		
Boron	10	.12	.12		
Cadmium	0.40	.012	.017		
Calcium	500	1.5	1.6		
Chromium	1.0	.042	.042	-0.010	<1.0
Cobalt	5.0	.017	.017		
Copper	2.5	.081	.15		
Gold	5.0	.097	.16		
Iron	10	.28	.54		
Lead	2.0	.057	.11	0.080	<2.0
Magnesium	500	2.5	4.2		
Manganese	1.5	.012	.092		
Molybdenum	10	.024	.026		
Nickel	4.0	.012	.028		
Palladium	5.0	.12	.12		
Platinum	5.0	.44	.61		
Potassium	500	2.9	3.6		
Selenium	2.0	.13	.19		
Silicon	10	.21	.47		
Silver	0.50	.049	.015		
Sodium	500	2.7	4.2		
Strontium	1.0	.006	.015		
Thallium	2.0	.056	.13		
Tin	10	.031	.034		
Titanium	5.0	.04	.048		
Tungsten	10	.34	.57		
Vanadium	3.0	.063	.068		
Zinc	2.0	.072	.28	0.15	<2.0

Associated samples MP15183: M91077-21

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91077
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/07/10 05/07/10

Metal	M90971-1 Original MS	Spikelot MPICP	% Rec	QC Limits	M90971-1 Original DUP	RPD	QC Limits		
Aluminum									
Antimony	anr								
Arsenic	1.3	45.2	51.5	85.2	75-125	1.3	1.3	0.0	0-20
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	9.3	52.2	51.5	83.2	75-125	9.3	10.4	11.2	0-20
Cobalt									
Copper									
Gold									
Iron									
Lead	4.3	90.9	103	84.0	75-125	4.3	4.2	2.4	0-20
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	22.2	64.1	51.5	81.3	75-125	22.2	22.0	0.9	0-20

Associated samples MP15183: M91077-21

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183

Methods: SW846 6010B

Matrix Type: SOLID

Units: mg/kg

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/07/10 05/07/10

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	45.4	50	90.8	80-120	46.3	50	92.6	2.0	20
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	43.7	50	87.4	80-120	45.2	50	90.4	3.4	20
Cobalt									
Copper									
Gold									
Iron									
Lead	89.4	100	89.4	80-120	91.1	100	91.1	1.9	20
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	45.3	50	90.6	80-120	46.4	50	92.8	2.4	20

Associated samples MP15183: M91077-21

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183

Methods: SW846 6010B

Matrix Type: SOLID

Units: mg/kg

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.2.3

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/07/10

Metal	LCS Result	Spikelot MPLCS68	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	130	138	94.2	83-117
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	101	105	96.2	80-119
Cobalt				
Copper				
Gold				
Iron				
Lead	128	144	88.9	81-119
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	199	223	89.2	80-120

Associated samples MP15183: M91077-21

6.2.3

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183

Methods: SW846 6010B

Matrix Type: SOLID

Units: mg/kg

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.2.3

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/07/10

Metal	M90971-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	12.6	12.0	4.8	0-10
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	92.3	98.8	7.0	0-10
Cobalt				
Copper				
Gold				
Iron				
Lead	43.3	45.5	5.1	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	221	239	8.0	0-10

Associated samples MP15183: M91077-21

6.2.4

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183

Methods: SW846 6010B

Matrix Type: SOLID

Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.2.4

6

POST DIGESTATE SPIKE SUMMARY

Login Number: M91077
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date:

05/07/10

Metal	Sample ml	Final ml	M90971-1 Raw	PS Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Gold										
Iron										
Lead										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Palladium										
Platinum										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

Associated samples MP15183: M91077-21

6.2.5
6

POST DIGESTATE SPIKE SUMMARY

Login Number: M91077

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15183

Methods: SW846 6010B

Matrix Type: SOLID

Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(**) Corr. sample result = Raw * (sample volume / final volume)

(anr) Analyte not requested



APPENDIX C

Laboratory Analytical Reports – Groundwater (May 6, 2010)



Technical Report for

Groundwater & Environmental Services

Caouette Property - 2 Stow Street - 90 Martin Street

1603449

Accutest Job Number: M91209

Sampling Date: 05/06/10

Report to:

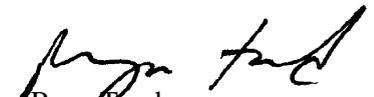
Groundwater & Environmental Services

mpenzo@gesonline.com
pwolti@gesonline.com
ATTN: Mike Penzo

Total number of pages in report: **47**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Pand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

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Test results relate only to samples analyzed.

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1

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3

4

5

6



Sample Summary

Groundwater & Environmental Services

Job No: M91209

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M91209-1	05/06/10	14:30 DM	05/07/10	AQ	Ground Water	MW-1
M91209-2	05/06/10	13:40 DM	05/07/10	AQ	Ground Water	MW-2
M91209-3	05/06/10	12:10 DM	05/07/10	AQ	Ground Water	MW-3
M91209-4	05/06/10	15:30 DM	05/07/10	AQ	Ground Water	MW-4
M91209-5	05/06/10	00:00 DM	05/07/10	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Groundwater & Environmental Services

Job No M91209

Site: Caouette Property - 2 Stow Street - 90 Martin Street

Report Date 5/14/2010 4:04:16 PM

4 Sample(s), 1 Trip Blank were collected on 05/06/2010 and were received at Accutest on 05/07/2010 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of M91209. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ	Batch ID: MSN1584
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Initial calibration standard MSN1583-ICC1583 for acetone, bromoform, 2-butanone, methylene chloride, 2,2-dichloropropane, 1,4-dioxane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, dibromochloromethane, naphthalene is employed quadratic regression.

Metals By Method SW846 6010B

Matrix AQ	Batch ID: MP15229
------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91150-2FDUP, M91150-2FMS, M91150-2FSDL, M91150-2FDUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Lead are outside control limits for sample MP15229-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP15229-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91209).



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1	
Lab Sample ID: M91209-1	Date Sampled: 05/06/10
Matrix: AQ - Ground Water	Date Received: 05/07/10
Method: SW846 8260B	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N42010.D	1	05/10/10	WC	n/a	n/a	MSN1584
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	05/06/10
Lab Sample ID:	M91209-1	Date Received:	05/07/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1		
Lab Sample ID: M91209-1		Date Sampled: 05/06/10
Matrix: AQ - Ground Water		Date Received: 05/07/10
Method: SW846 8260B		Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1	
Lab Sample ID: M91209-1	Date Sampled: 05/06/10
Matrix: AQ - Ground Water	Date Received: 05/07/10
	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Lead	< 5.0	5.0	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ²	SW846 3010A ³

(1) Instrument QC Batch: MA11759

(2) Instrument QC Batch: MA11764

(3) Prep QC Batch: MP15229

RL = Reporting Limit

Report of Analysis

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Client Sample ID: MW-2	
Lab Sample ID: M91209-2	Date Sampled: 05/06/10
Matrix: AQ - Ground Water	Date Received: 05/07/10
Method: SW846 8260B	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N42011.D	1	05/10/10	WC	n/a	n/a	MSN1584
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	05/06/10
Lab Sample ID:	M91209-2	Date Received:	05/07/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2		
Lab Sample ID: M91209-2		Date Sampled: 05/06/10
Matrix: AQ - Ground Water		Date Received: 05/07/10
Method: SW846 8260B		Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2		
Lab Sample ID: M91209-2		Date Sampled: 05/06/10
Matrix: AQ - Ground Water		Date Received: 05/07/10
		Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Lead	< 5.0	5.0	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Zinc	39.4	20	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ²	SW846 3010A ³

(1) Instrument QC Batch: MA11759

(2) Instrument QC Batch: MA11764

(3) Prep QC Batch: MP15229

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3	
Lab Sample ID: M91209-3	Date Sampled: 05/06/10
Matrix: AQ - Ground Water	Date Received: 05/07/10
Method: SW846 8260B	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N42012.D	1	05/10/10	WC	n/a	n/a	MSN1584
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	05/06/10
Lab Sample ID:	M91209-3	Date Received:	05/07/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3		
Lab Sample ID: M91209-3		Date Sampled: 05/06/10
Matrix: AQ - Ground Water		Date Received: 05/07/10
Method: SW846 8260B		Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3	Date Sampled: 05/06/10
Lab Sample ID: M91209-3	Date Received: 05/07/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Lead	< 5.0	5.0	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Zinc	21.3	20	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ²	SW846 3010A ³

(1) Instrument QC Batch: MA11759

(2) Instrument QC Batch: MA11764

(3) Prep QC Batch: MP15229

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-4	
Lab Sample ID: M91209-4	Date Sampled: 05/06/10
Matrix: AQ - Ground Water	Date Received: 05/07/10
Method: SW846 8260B	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N42013.D	1	05/10/10	WC	n/a	n/a	MSN1584
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4	Date Sampled:	05/06/10
Lab Sample ID:	M91209-4	Date Received:	05/07/10
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	11.8	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-4		
Lab Sample ID: M91209-4		Date Sampled: 05/06/10
Matrix: AQ - Ground Water		Date Received: 05/07/10
Method: SW846 8260B		Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-4	Date Sampled: 05/06/10
Lab Sample ID: M91209-4	Date Received: 05/07/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Chromium	< 10	10	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Lead	< 5.0	5.0	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ¹	SW846 3010A ³
Zinc	< 20	20	ug/l	1	05/12/10	05/13/10 DA	SW846 6010B ²	SW846 3010A ³

(1) Instrument QC Batch: MA11759

(2) Instrument QC Batch: MA11764

(3) Prep QC Batch: MP15229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/06/10
Lab Sample ID:	M91209-5	Date Received:	05/07/10
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N42009.D	1	05/10/10	WC	n/a	n/a	MSN1584
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/06/10
Lab Sample ID:	M91209-5	Date Received:	05/07/10
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/06/10
Lab Sample ID:	M91209-5	Date Received:	05/07/10
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Caouette Property - 2 Stow Street - 90 Martin Street		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M91209

Client: GES

Immediate Client Services Action Required: No

Date / Time Received: 5/7/2010 4:30:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: CAQUETTE PROPERTY

Airbill #'s: N/A

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved property:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Empty box for comments.

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www.accutest.com

4.1
4



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: **MADEP MCP Response Action Analytical Report Certification Form**

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M91209

Project Location: Caouette Property - 2 Stow Street - 90 Martin Street MADEP RTN ¹ None

This form provides certifications for the following data set:
M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

Sample Matrices: Groundwater Soil/Sediment Drinking Water Other:

MCP SW-846 Methods Used	8260B <input checked="" type="checkbox"/>	8151A <input type="checkbox"/>	8330 <input type="checkbox"/>	6010B <input checked="" type="checkbox"/>	7470A/1A <input type="checkbox"/>
	8270C <input type="checkbox"/>	8081A <input type="checkbox"/>	VPH <input type="checkbox"/>	6020 <input type="checkbox"/>	9014M ² <input type="checkbox"/>
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 <input type="checkbox"/>	8021B <input type="checkbox"/>	EPH <input type="checkbox"/>	7000 S ³ <input type="checkbox"/>	7196A <input type="checkbox"/>

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

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

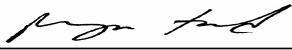
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included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

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

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

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

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

Signature:  Position: Laboratory Director

Printed Name: Reza Tand Date: 05/14/2010

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: M91209

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

4.3
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91209-1 Collected: 06-MAY-10 14:30 By: DM Received: 07-MAY-10 By: JB MW-1						
M91209-1	SW846 8260B	10-MAY-10 13:28	WC			V8260MCP
M91209-1	SW846 6010B	13-MAY-10 00:34	DA	12-MAY-10 EM		AS,CR,PB
M91209-1	SW846 6010B	13-MAY-10 13:53	DA	12-MAY-10 EM		ZN
M91209-2 Collected: 06-MAY-10 13:40 By: DM Received: 07-MAY-10 By: JB MW-2						
M91209-2	SW846 8260B	10-MAY-10 13:56	WC			V8260MCP
M91209-2	SW846 6010B	13-MAY-10 00:38	DA	12-MAY-10 EM		AS,CR,PB
M91209-2	SW846 6010B	13-MAY-10 13:59	DA	12-MAY-10 EM		ZN
M91209-3 Collected: 06-MAY-10 12:10 By: DM Received: 07-MAY-10 By: JB MW-3						
M91209-3	SW846 8260B	10-MAY-10 14:24	WC			V8260MCP
M91209-3	SW846 6010B	13-MAY-10 00:43	DA	12-MAY-10 EM		AS,CR,PB
M91209-3	SW846 6010B	13-MAY-10 14:05	DA	12-MAY-10 EM		ZN
M91209-4 Collected: 06-MAY-10 15:30 By: DM Received: 07-MAY-10 By: JB MW-4						
M91209-4	SW846 8260B	10-MAY-10 14:52	WC			V8260MCP
M91209-4	SW846 6010B	13-MAY-10 00:47	DA	12-MAY-10 EM		AS,CR,PB
M91209-4	SW846 6010B	13-MAY-10 14:12	DA	12-MAY-10 EM		ZN
M91209-5 Collected: 06-MAY-10 00:00 By: DM Received: 07-MAY-10 By: JB TRIP BLANK						
M91209-5	SW846 8260B	10-MAY-10 12:59	WC			V8260MCP



GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M91209

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1584-MB	N42008.D	1	05/10/10	WC	n/a	n/a	MSN1584

The QC reported here applies to the following samples:

Method: SW846 8260B

M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	

Method Blank Summary

Job Number: M91209

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1584-MB	N42008.D	1	05/10/10	WC	n/a	n/a	MSN1584

The QC reported here applies to the following samples:

Method: SW846 8260B

M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M91209
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1584-MB	N42008.D	1	05/10/10	WC	n/a	n/a	MSN1584

The QC reported here applies to the following samples:

Method: SW846 8260B

M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	88% 70-130%
2037-26-5	Toluene-D8	94% 70-130%
460-00-4	4-Bromofluorobenzene	102% 70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91209

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1584-BS	N42005.D	1	05/10/10	WC	n/a	n/a	MSN1584
MSN1584-BSD	N42006.D	1	05/10/10	WC	n/a	n/a	MSN1584

The QC reported here applies to the following samples:

Method: SW846 8260B

M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	44.1	88	39.5	79	11	70-130/25
71-43-2	Benzene	50	52.3	105	51.0	102	3	70-130/25
108-86-1	Bromobenzene	50	57.1	114	56.6	113	1	70-130/25
74-97-5	Bromochloromethane	50	53.3	107	50.3	101	6	70-130/25
75-27-4	Bromodichloromethane	50	53.2	106	51.9	104	2	70-130/25
75-25-2	Bromoform	50	52.3	105	52.4	105	0	70-130/25
74-83-9	Bromomethane	50	54.0	108	47.5	95	13	70-130/25
78-93-3	2-Butanone (MEK)	50	45.5	91	43.2	86	5	70-130/25
104-51-8	n-Butylbenzene	50	60.2	120	60.6	121	1	70-130/25
135-98-8	sec-Butylbenzene	50	56.3	113	56.0	112	1	70-130/25
98-06-6	tert-Butylbenzene	50	54.2	108	54.2	108	0	70-130/25
75-15-0	Carbon disulfide	50	51.6	103	50.3	101	3	70-130/25
56-23-5	Carbon tetrachloride	50	57.4	115	55.6	111	3	70-130/25
108-90-7	Chlorobenzene	50	52.1	104	52.8	106	1	70-130/25
75-00-3	Chloroethane	50	53.6	107	49.9	100	7	70-130/25
67-66-3	Chloroform	50	53.4	107	50.5	101	6	70-130/25
74-87-3	Chloromethane	50	48.4	97	46.5	93	4	70-130/25
95-49-8	o-Chlorotoluene	50	52.0	104	51.8	104	0	70-130/25
106-43-4	p-Chlorotoluene	50	53.6	107	53.7	107	0	70-130/25
108-20-3	Di-Isopropyl ether	50	48.6	97	46.6	93	4	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	55.2	110	54.3	109	2	70-130/25
124-48-1	Dibromochloromethane	50	52.3	105	52.1	104	0	70-130/25
106-93-4	1,2-Dibromoethane	50	55.8	112	55.6	111	0	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.7	105	53.5	107	2	70-130/25
541-73-1	1,3-Dichlorobenzene	50	53.8	108	53.6	107	0	70-130/25
106-46-7	1,4-Dichlorobenzene	50	52.7	105	53.1	106	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	48.4	97	46.5	93	4	70-130/25
75-34-3	1,1-Dichloroethane	50	50.7	101	49.5	99	2	70-130/25
107-06-2	1,2-Dichloroethane	50	54.6	109	53.1	106	3	70-130/25
75-35-4	1,1-Dichloroethene	50	48.9	98	48.8	98	0	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	51.9	104	50.0	100	4	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	50.3	101	48.0	96	5	70-130/25
78-87-5	1,2-Dichloropropane	50	51.0	102	50.8	102	0	70-130/25
142-28-9	1,3-Dichloropropane	50	53.6	107	54.1	108	1	70-130/25
594-20-7	2,2-Dichloropropane	50	51.0	102	49.6	99	3	70-130/25
563-58-6	1,1-Dichloropropene	50	56.4	113	54.1	108	4	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91209

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1584-BS	N42005.D	1	05/10/10	WC	n/a	n/a	MSN1584
MSN1584-BSD	N42006.D	1	05/10/10	WC	n/a	n/a	MSN1584

The QC reported here applies to the following samples:

Method: SW846 8260B

M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	55.9	112	54.9	110	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	61.2	122	60.2	120	2	70-130/25
123-91-1	1,4-Dioxane	250	250	100	240	96	4	70-130/25
60-29-7	Ethyl Ether	50	53.3	107	51.5	103	3	70-130/25
100-41-4	Ethylbenzene	50	52.8	106	53.9	108	2	70-130/25
87-68-3	Hexachlorobutadiene	50	52.0	104	52.2	104	0	70-130/25
591-78-6	2-Hexanone	50	48.6	97	48.2	96	1	70-130/25
98-82-8	Isopropylbenzene	50	62.4	125	62.2	124	0	70-130/25
99-87-6	p-Isopropyltoluene	50	53.9	108	54.7	109	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	51.1	102	48.5	97	5	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.5	101	47.8	96	5	70-130/25
74-95-3	Methylene bromide	50	54.2	108	53.7	107	1	70-130/25
75-09-2	Methylene chloride	50	50.4	101	48.2	96	4	70-130/25
91-20-3	Naphthalene	50	54.3	109	55.2	110	2	70-130/25
103-65-1	n-Propylbenzene	50	53.1	106	53.6	107	1	70-130/25
100-42-5	Styrene	50	61.3	123	61.6	123	0	70-130/25
994-05-8	tert-Amyl Methyl Ether	50	53.4	107	52.3	105	2	70-130/25
637-92-3	tert-Butyl Ethyl Ether	50	53.8	108	52.0	104	3	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	58.5	117	57.3	115	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	58.3	117	56.8	114	3	70-130/25
127-18-4	Tetrachloroethene	50	53.8	108	54.7	109	2	70-130/25
109-99-9	Tetrahydrofuran	50	47.0	94	43.6	87	8	70-130/25
108-88-3	Toluene	50	54.1	108	53.1	106	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	58.2	116	60.1	120	3	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	59.8	120	61.5	123	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	55.3	111	53.9	108	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	55.4	111	53.3	107	4	70-130/25
79-01-6	Trichloroethene	50	54.6	109	53.2	106	3	70-130/25
75-69-4	Trichlorofluoromethane	50	57.0	114	55.0	110	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	53.0	106	54.1	108	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	53.0	106	53.4	107	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	55.4	111	55.8	112	1	70-130/25
75-01-4	Vinyl chloride	50	43.6	87	42.5	85	3	70-130/25
	m,p-Xylene	100	106	106	106	106	0	70-130/25
95-47-6	o-Xylene	50	52.6	105	53.2	106	1	70-130/25
1330-20-7	Xylene (total)	150	158	105	159	106	1	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M91209

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1584-BS	N42005.D	1	05/10/10	WC	n/a	n/a	MSN1584
MSN1584-BSD	N42006.D	1	05/10/10	WC	n/a	n/a	MSN1584

The QC reported here applies to the following samples:

Method: SW846 8260B

M91209-1, M91209-2, M91209-3, M91209-4, M91209-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	92%	90%	70-130%
2037-26-5	Toluene-D8	96%	94%	70-130%
460-00-4	4-Bromofluorobenzene	101%	98%	70-130%

5.2.1
5

Volatile Internal Standard Area Summary

Job Number: M91209
Account: GESMA Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Check Std: MSN1584-CC1583	Injection Date: 05/10/10
Lab File ID: N42004.D	Injection Time: 10:38
Instrument ID: GCMSN	Method: SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	96503	8.62	159601	9.47	107126	12.72	72292	15.29	62716	6.20
Upper Limit ^a	193006	9.12	319202	9.97	214252	13.22	144584	15.79	125432	6.70
Lower Limit ^b	48252	8.12	79801	8.97	53563	12.22	36146	14.79	31358	5.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN1584-BS	91770	8.62	155857	9.48	105421	12.72	69458	15.28	69729	6.20
MSN1584-BSD	95961	8.62	160048	9.48	105133	12.72	70142	15.28	68634	6.20
MSN1584-MB	90899	8.62	151093	9.47	94367	12.72	62104	15.28	69593	6.20
M91209-5	87831	8.62	145964	9.48	93337	12.72	62441	15.28	63962	6.20
M91209-1	85972	8.62	143173	9.48	91376	12.72	61116	15.29	61575	6.20
M91209-2	85004	8.62	142830	9.48	92299	12.72	59866	15.28	65017	6.20
M91209-3	83472	8.62	140599	9.48	89268	12.72	58521	15.28	64381	6.20
M91209-4	82553	8.62	137261	9.48	88685	12.72	57553	15.29	65074	6.20
ZZZZZZ	80702	8.62	136741	9.48	88916	12.72	57259	15.28	63789	6.20
ZZZZZZ	79729	8.62	135553	9.48	87089	12.72	55258	15.28	67262	6.20
ZZZZZZ	79850	8.62	134374	9.48	87366	12.72	56203	15.28	61647	6.20
ZZZZZZ	78744	8.62	133291	9.47	86383	12.72	57566	15.29	58270	6.20
ZZZZZZ	79811	8.62	132692	9.48	87016	12.72	61410	15.28	60205	6.20
ZZZZZZ	82121	8.62	137540	9.48	89437	12.72	57479	15.28	68232	6.20

- IS 1** = Pentafluorobenzene
- IS 2** = 1,4-Difluorobenzene
- IS 3** = Chlorobenzene-D5
- IS 4** = 1,4-Dichlorobenzene-d4
- IS 5** = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

5.3.1
 5

Volatile Surrogate Recovery Summary

Job Number: M91209

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

Method: SW846 8260B

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M91209-1	N42010.D	89.0	95.0	102.0
M91209-2	N42011.D	88.0	96.0	101.0
M91209-3	N42012.D	90.0	96.0	102.0
M91209-4	N42013.D	92.0	96.0	101.0
M91209-5	N42009.D	91.0	97.0	101.0
MSN1584-BS	N42005.D	92.0	96.0	101.0
MSN1584-BSD	N42006.D	90.0	94.0	98.0
MSN1584-MB	N42008.D	88.0	94.0	102.0

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane

70-130%

S2 = Toluene-D8

70-130%

S3 = 4-Bromofluorobenzene

70-130%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91209
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 05/12/10 05/12/10 05/12/10

Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	7	14						
Antimony	6.0	.79	1.2						
Arsenic	10	.57	1.9	-0.90	<10	-0.30	<10	0.10	<10
Barium	200	2	3.7						
Beryllium	4.0	.15	.2						
Boron	100	1.2	1.5						
Cadmium	4.0	.12	.12						
Calcium	5000	15	39						
Chromium	10	.42	.5	-0.10	<10	0.0	<10	0.20	<10
Cobalt	50	.17	.3						
Gold	50	.97	1.7						
Iron	100	2.8	4.1						
Lead	5.0	.57	1.5	0.10	<5.0	0.0	<5.0	-0.30	<5.0
Magnesium	5000	25	32						
Manganese	15	.12	.9						
Molybdenum	100	.24	.6						
Nickel	40	.12	.3						
Palladium	50	1.2	2.5						
Platinum	50	4.4	7						
Potassium	5000	29	30						
Selenium	10	1.3	1.7						
Silicon	100	2.1	7.2						
Silver	5.0	.56	1.3						
Sodium	5000	27	31						
Strontium	10	.06	.3						
Thallium	10	.56	.7						
Tin	100	.31	.4						
Titanium	50	.4	.5						
Tungsten	100	3.4	12						
Vanadium	30	.63	1.1						
Zinc	20	1.1	3.1	0.31	<20	0.90	<20	0.49	<20

Associated samples MP15229: M91209-1, M91209-2, M91209-3, M91209-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M91209
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

6.1.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91209
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10 05/12/10

Metal	M91150-2F Original MS	Spikelot MPICP	% Rec	QC Limits	M91150-2F Original DUP	RPD	QC Limits
Aluminum							
Antimony	anr						
Arsenic	4.1	498	500	98.8	75-125	4.1 4.5	9.3 0-20
Barium	anr						
Beryllium	anr						
Boron							
Cadmium	anr						
Calcium							
Chromium	0.0	447	500	89.4	75-125	0.0 0.0	NC 0-20
Cobalt							
Gold							
Iron	anr						
Lead	1.5	913	1000	91.2	75-125	1.5 2.3	42.1 (a) 0-20
Magnesium							
Manganese							
Molybdenum							
Nickel	anr						
Palladium							
Platinum							
Potassium							
Selenium	anr						
Silicon							
Silver	anr						
Sodium							
Strontium							
Thallium	anr						
Tin							
Titanium							
Tungsten							
Vanadium	anr						
Zinc	0.0	500	500	100.0	75-125	0.0 0.0	NC 0-20

Associated samples MP15229: M91209-1, M91209-2, M91209-3, M91209-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M91209

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

6.1.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91209
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10 05/12/10

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	474	500	94.8	80-120	482	500	96.4	1.7	20
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium									
Chromium	444	500	88.8	80-120	450	500	90.0	1.3	20
Cobalt									
Gold									
Iron	anr								
Lead	913	1000	91.3	80-120	923	1000	92.3	1.1	20
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	494	500	98.8	80-120	515	500	103.0	4.2	20

Associated samples MP15229: M91209-1, M91209-2, M91209-3, M91209-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M91209

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

6.1.3

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91209
 Account: GESMA - Groundwater & Environmental Services
 Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/12/10

Metal	M91150-2F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	4.10	3.20	22.0 (a)	0-10
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Gold				
Iron	anr			
Lead	1.50	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	0.00	0.00	NC	0-10

Associated samples MP15229: M91209-1, M91209-2, M91209-3, M91209-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

6.1.4
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: M91209

Account: GESMA - Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

QC Batch ID: MP15229

Methods: SW846 6010B

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

6.1.4

6



Technical Report for

Groundwater & Environmental Services

Caouette Property - 2 Stow Street - 90 Martin Street

1603449

Accutest Job Number: M91168

Sampling Date: 05/06/10

Report to:

Groundwater & Environmental Services

mpenzo@gesonline.com

pwolti@gesonline.com

ATTN: Mike Penzo

Total number of pages in report: **18**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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Sample Summary

Groundwater & Environmental Services

Job No: M91168

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
M91168-1	05/06/10	14:30 DM	05/06/10	AQ	Ground Water	MW-1
M91168-2	05/06/10	13:40 DM	05/06/10	AQ	Ground Water	MW-2
M91168-3	05/06/10	12:10 DM	05/06/10	AQ	Ground Water	MW-3
M91168-4	05/06/10	15:30 DM	05/06/10	AQ	Ground Water	MW-4

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Groundwater & Environmental Services

Job No M91168

Site: Caouette Property - 2 Stow Street - 90 Martin Street

Report Date 5/17/2010 11:46:40 AM

4 Sample(s) were collected on 05/06/2010 and were received at Accutest on 05/06/2010 properly preserved, at 2.3 Deg. C and intact. These Samples received an Accutest job number of M91168. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method ASTM E1498-76

Matrix AQ

Batch ID: GN31793

- Sample(s) M91168-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method EPA 120.1

Matrix AQ

Batch ID: GN31792

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M91168-1DUP were used as the QC samples for Specific Conductivity.

Wet Chemistry By Method SM21 4500H-B

Matrix AQ

Batch ID: GN31802

- Sample(s) M91168-1DUP were used as the QC samples for pH.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M91168).



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1	Date Sampled: 05/06/10
Lab Sample ID: M91168-1	Date Received: 05/06/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	318		mv	1	05/06/10	MA	ASTM E1498-76
Specific Conductivity	131	0.50	umhos/cm	1	05/06/10	MA	EPA 120.1
pH	5.2		su	1	05/06/10 17:45	MA	SM21 4500H-B

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2	Date Sampled: 05/06/10
Lab Sample ID: M91168-2	Date Received: 05/06/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	364		mv	1	05/06/10	MA	ASTM E1498-76
Specific Conductivity	212	0.50	umhos/cm	1	05/06/10	MA	EPA 120.1
pH	5.6		su	1	05/06/10 17:45	MA	SM21 4500H-B

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-3	Date Sampled: 05/06/10
Lab Sample ID: M91168-3	Date Received: 05/06/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	370		mv	1	05/06/10	MA	ASTM E1498-76
Specific Conductivity	236	0.50	umhos/cm	1	05/06/10	MA	EPA 120.1
pH	5.6		su	1	05/06/10 17:45	MA	SM21 4500H-B

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-4	Date Sampled: 05/06/10
Lab Sample ID: M91168-4	Date Received: 05/06/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Caouette Property - 2 Stow Street - 90 Martin Street	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Redox Potential Vs H2	390		mv	1	05/06/10	MA	ASTM E1498-76
Specific Conductivity	139	0.50	umhos/cm	1	05/06/10	MA	EPA 120.1
pH	5.6		su	1	05/06/10 17:45	MA	SM21 4500H-B

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

Parameter Certifications

Job Number: M91168

Account: GESMA Groundwater & Environmental Services

Project: Caouette Property - 2 Stow Street - 90 Martin Street

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
pH		SM21 4500H-B	AQ	Accutest is certified for this parameter.
Specific Conductivity		EPA 120.1	AQ	Accutest is certified for this parameter.

4.1
4



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M91168

Client: GES

Immediate Client Services Action Required: No

Date / Time Received: 5/6/2010 4:50:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: TOWN OF ACTON

Airbill #'s: N/A

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Infrared gun	
3. Cooler media:	Ice (bag)	

<u>Quality Control Preservation</u>	<u>Y or N</u>		<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	
3. Samples preserved property:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>		<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www.accutest.com

4.2
4



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M91168

Project Location: Caouette Property - 2 Stow Street - 90 Martin Street MADEP RTN ¹ None

This form provides certifications for the following data set:
M91168-1, M91168-2, M91168-3, M91168-4

Test Method: Referral to Case Narrative

Sample Matrices: Groundwater X Soil/Sediment () Drinking Water () Other: () ()

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

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

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

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

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

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

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

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

Signature: Reza Tand Position: Laboratory Director

Printed Name: Reza Tand Date: 05/17/2010

Internal Sample Tracking Chronicle

Groundwater & Environmental Services

Job No: M91168

Caouette Property - 2 Stow Street - 90 Martin Street
 Project No: 1603449

4.4
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M91168-1 Collected: 06-MAY-10 14:30 By: DM Received: 06-MAY-10 By: JB						
MW-1						
M91168-1	ASTM E1498-76	06-MAY-10	MA			EH
M91168-1	EPA 120.1	06-MAY-10	MA			SCON
M91168-1	SM21 4500H-B	06-MAY-10 17:45	MA			PH
M91168-2 Collected: 06-MAY-10 13:40 By: DM Received: 06-MAY-10 By: JB						
MW-2						
M91168-2	ASTM E1498-76	06-MAY-10	MA			EH
M91168-2	EPA 120.1	06-MAY-10	MA			SCON
M91168-2	SM21 4500H-B	06-MAY-10 17:45	MA			PH
M91168-3 Collected: 06-MAY-10 12:10 By: DM Received: 06-MAY-10 By: JB						
MW-3						
M91168-3	ASTM E1498-76	06-MAY-10	MA			EH
M91168-3	EPA 120.1	06-MAY-10	MA			SCON
M91168-3	SM21 4500H-B	06-MAY-10 17:45	MA			PH
M91168-4 Collected: 06-MAY-10 15:30 By: DM Received: 06-MAY-10 By: JB						
MW-4						
M91168-4	ASTM E1498-76	06-MAY-10	MA			EH
M91168-4	EPA 120.1	06-MAY-10	MA			SCON
M91168-4	SM21 4500H-B	06-MAY-10 17:45	MA			PH



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M91168
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GN31792	0.50	<0.50	umhos/cm				

Associated Samples:

Batch GN31792: M91168-1, M91168-2, M91168-3, M91168-4

(*) Outside of QC limits

5.1
5

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M91168
Account: GESMA - Groundwater & Environmental Services
Project: Caouette Property - 2 Stow Street - 90 Martin Street

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Redox Potential Vs H2	GN31793	M91168-1	mv	318	315	0.9	0-%
Specific Conductivity	GN31792	M91168-1	umhos/cm	131	131	0.0	0-20%
pH	GN31802	M91168-1	su	5.2	5.2	0.0	0-5%

Associated Samples:

Batch GN31792: M91168-1, M91168-2, M91168-3, M91168-4

Batch GN31793: M91168-1, M91168-2, M91168-3, M91168-4

Batch GN31802: M91168-1, M91168-2, M91168-3, M91168-4

(*) Outside of QC limits

5.2
5



APPENDIX D

Photographs

*Caouette Property
2 Stow Street/90 Martin Street, Acton, MA
June 1, 2010*



Photo 1: View, facing northeast, of the subject property, former Moore & Burgess and Morocco Factory located to the right of the photo.



Photo 2: View, facing east showing the northwest boundary of the former factory area.



Photo 3: View facing southeast showing former factory area, note brick wall in foreground.



Photo 4: View from within the former factory area facing southeast. Note Mill Pond in the background.



Photo 5: View facing northeast from center of factory foundation area. Note rusted empty drum in foreground and foundation wall in background.



Photo 6: View from railroad track facing northwest. Note shore of Mill Pond and orange flag sediment sample location SD-4.

Caouette Property
2 Stow Street/90 Martin Street, Acton, MA
June 1, 2010



Photo 7: View facing southwest showing drillers preclearing boring MW-1 with post hole digger to a depth of five feet.



Photo 8: View facing west showing drilling MW-1 with Geoprobe rig. GES geologist logging boring to the right of the photo.



Photo 9: An example of a soil sample collected during the drilling process in an acetate sleeve.



Photo 10: Pieces of coal slag found in the former factory area in the vicinity of the railroad tracks.



Photo 11: View of completed monitoring well MW-3 at northwest boundary of former factory area.



Photo 12: Close up view of monitoring well MW-3.



APPENDIX E

GES' Proposal and Terms and Conditions



364 Littleton Road • Suite 4 • Westford, Massachusetts 01886 • (800) 221-6119 • Fax (978) 392-8583

April 16, 2010

Mr. John Murray,
Assistant Town Manager
Town of Acton
472 Main Street
Acton, Massachusetts 01720

Subject: Bid Proposal/Scope of Work/Cost Proposal
Phase II Environmental Site Assessment (ESA)
Caouette Property, 2 Stow Street/90 Martin Street
Acton, Massachusetts
(Acton Assessors Map H-2, Parcels 95 and Map H-2A Parcel 62)

Dear Mr. Murray:

Groundwater & Environmental Services, Inc. is pleased to provide to the Town of Acton, Massachusetts this Bid Proposal/Scope of Work/Cost Proposal to perform a Phase II Environmental Site Assessment (ESA) for a portion of the Caouette property at 2 Stow Street/90 Martin Street, Acton, Massachusetts (Caouette Property). It is our understanding that the Town is in the process of entering into an agreement to purchase and sale agreement with the current owner, Ms. Mary Ann Caouette. It is our understanding that based upon the results of this Phase II Environmental Site Assessment, if soil, sediment and/or groundwater are found to contain contaminant levels in excess of Massachusetts Department of Environmental Protection Method 1 Reportable Concentrations or other analogous standards, then the Town has the right to withdraw from the purchase of the Caouette property.

Enclosed with this letter are the following attachments:

- Description of our organizational structure to be employed in supporting this site, with brief biographies of key personnel.
- Scope of work and pricing information.
 - Unit Costs
- GES Standard Terms and Conditions
 - LSP Indemnification
- GES Qualifications and Experience
 - Resumes
 - Experience Cut Sheets
 - Site Assessment
 - Phase I ESA
 - Phase II ESA
 - GES in Massachusetts
 - LSPs in Massachusetts
- Sample Location Plan



Thank you for this opportunity to present this Bid Proposal for Phase II ESA to the Town of Acton. We look forward to working with you on this important project. If you have any questions or require additional information concerning this quotation, please feel free to contact Mike Penzo at 1-800-221-6119 x3239.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Michael A. Penzo, CPG, PG, LSP
Senior Hydrogeologist
Senior Project Manager

Approved and accepted for the Town of Acton, Massachusetts

Name		Title		Date	3/20/10
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John Murray
Assistant, Town of Acton, Massachusetts

GES Proposal No. MAP 02-10

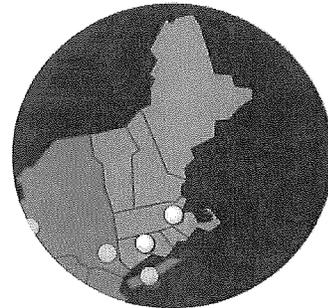
Introduction

Groundwater & Environmental Services, Inc. is pleased to provide to the Town of Acton, Massachusetts this Bid Proposal/Scope of Work/Cost Proposal to perform a Phase II Environmental Site Assessment (ESA) for a portion of the Caouette property at 2 Stow Street/90 Martin Street, Acton, Massachusetts. It is our understanding that the Town is in the process of entering into a purchase and sale agreement with the current owner, Ms. Mary Ann Caouette.

GES offers the Town of Acton the greatest value through:

- ✓ Our experienced hands-on technical and professional resources in our Westford, MA office.
- ✓ Our experience of successful client advocacy, compliance and negotiation within the Massachusetts Department of Environmental Protection (MADEP), the Massachusetts Contingency Plan (MCP) and the Massachusetts Licensed Hazardous Waste Site Professional (LSP), privatized waste site cleanup program.
- ✓ Our experience with environmental site assessments in accordance with ASTM Phase I and II Environmental Site Assessment standards.
- ✓ Our client focused approach to project management. Our clients are valued partners in the performance of our projects from environmental site assessments to large scale environmental remediation.
- ✓ Our commitment to safeguarding the health, safety, security, and environment (HSSE) of our employees, clients, and subcontractors.

Resources and Organizational Structure. GES has had a continuous presence in Massachusetts since 1993, working at active and inactive service stations, terminal and pipeline facilities as well as retail portfolios for major oil clientele. The Massachusetts team also has extensive experience performing environmental site assessments in accordance with both ASTM and MCP standards, as well as site remediation experience under Phases III-V of the MCP. The Westford office is staffed with 34 employees including four LSPs; one senior hydrogeologist, two senior engineers, eight environmental geologists, three environmental engineers; six environmental scientists and five field technicians, working on more than 100 projects. Steve Charron, Site Operations Manager with 15 years of Massachusetts consulting experience, directs local operations. He also works closely with the nearby office in Windsor, Connecticut, to utilize additional professional and field service resources.



Key Personnel. Michael A. Penzo, PG, CPG, LSP will manage the project for GES. Mike has over 29 years of environmental consulting experience and has been an LSP for the last 11 years. He has extensive experience in environmental site assessment and remediation. Mr. Penzo is a Senior Project Manager and Senior Hydrogeologist, and has extensive experience in environmental auditing and investigations, remedial feasibility analysis and design, and in the implementation of remedial actions at contaminated sites. Contaminated environmental media with which he has experience includes air, sediment, soil, and groundwater. These sites have been regulated under the Massachusetts Contingency Plan (MCP), and



Groundwater & Environmental Services, Inc.

other state programs as well as the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA). He has performed numerous environmental site assessments in accordance with American Society for Testing and Materials (ASTM) requirements. Mr. Penzo has acted as Licensed Site Professional (LSP) of Record for sites under each phase of the Massachusetts Contingency Plan. He has also provided litigation support, including expert witness testimony and third party review.

Mr. Penzo will be assisted by Joel Walcott, Engineer, with over nine years of environmental consulting experience. Mr. Walcott has extensive experience with Phase I and Phase II Environmental Site Assessments and will coordinate the field portion of the project. Dave Martin and Nick Vitelli are experienced field geologists who will oversee the drilling program and perform the soil, sediment and groundwater sampling portions of the project.

1.0 Scope of Work - Caouette Property Acton, Massachusetts

1.1 Background

The area of concern for this investigation has been described as the area of the “Former Moore & Burgess Co. and Morocco Factory” in the eastern portion of the 2 Stow Street property and the adjoining northern shore of Mill Pond located south of the former factory (refer to attached Site Plan).

The area of concern was used as a leather manufacturing facility from 1892 to the early 1900’s. The Morocco Factory tanned leather with vegetable tanning and chromium tanning methods. Lead, Arsenic, Zinc and PAHs may also be present from the historic tanning operations.

Following the Morocco Factory, an ice cream pail manufacturing company was in place. These pails were typically metal and could contain zinc.

From 1908 to 1917 the buildings were occupied by the Moore & Burgess, Co. who manufactured fabric strips.

The buildings were vacant from 1917 until 1930 when they were demolished. The area since 1930 has been forested and farmed.

1.2 Purpose

The purpose of this Phase II Environmental Site Assessment is to determine the presence or absence of environmental impairment on the portion of the 2 Stow Street/90 Martin Street formerly occupied by the “Former Moore & Burgess Co. and Morocco Factory” in the eastern portion of the 2 Stow Street property and the adjoining northern shore of Mill Pond located south of the former factory. Should a reportable condition be encountered, the Town of Acton will be notified in a timely manner. While it is the responsibility of the current owner to notify the MADEP, the information as it becomes available will have a direct bearing on whether or not the Town proceeds with the purchase of the property.

1.3 Base Scope of Work

In accordance with the Town of Acton’s Request for Quotes, the base scope of work will consist of the installation of four groundwater monitoring wells; collection and analysis of four groundwater samples for arsenic, chromium, lead, and zinc; collection and analysis of six sediment and 15 to 20 soil samples for arsenic, chromium, lead, zinc and PAHs. These soil samples will be collected both from the soil borings/monitoring wells and several outlying shallow soil samples; preparation of a Phase II Environmental Site Assessment Report (ESA) for submittal to the Town of Acton Planning Director. The report will have all the relevant findings, conclusions and appropriate recommendations concerning the former factory site, based upon the results of the Base Scope of Work.

The four monitoring wells will be placed around the four sides of the former factory area.

1.3.1 Site-Specific Health and Safety Plan

Prior to any site work, GES will develop a site-specific health and safety plan (HASP) that identifies responsibilities, establishes personal protection standards, institutes mandatory safety practices and procedures, and provides for contingencies that may arise while performing work at the Caouette Property Site. This HASP will include a hazard analysis, task specific health and safety and personal protective equipment requirements, emergency contacts, directions to the nearest hospital, site description, tasks to



be performed, employee training requirements, medical monitoring, first aid, site control measures, decontamination procedures, and site operation general SOPs.

1.3.2 Digsafe Pre-mark and Clearance

After preparation of the site-specific HASP, GES personnel will travel to the Caouette Property and pre-mark the locations for each of the environmental boring/monitoring wells, shallow soil samples and sediment samples. The Digsafe call center will be notified three business days prior to the commencement of the field program.

1.3.3 Installation of Four Monitoring Wells

GES will contract with a local Direct Push Drilling contractor, Crawford Drilling Services, LLC, to install the four groundwater monitoring wells. Initially, the driller will pre-clear each of the four boring locations by hand or by air knife to a minimum depth of five (5) feet below ground surface. The Geoprobe® direct-push drilling rig will collect continuous soil samples to a depth of up to 20 feet, with the total depth based on the location of the encountered groundwater table. The soil samples will be collected in Geoprobe® 5 foot long clear acetate liners. The liners will be opened, and each sample will be screened for Volatile Organic Compounds (VOCs) with a photoionization detector in accordance with Massachusetts Department of Environmental Protection policy. A GES geologist will prepare boring/groundwater monitoring well logs describing the soil characteristics, the depth and thickness of each soil type, PID concentrations, depth to groundwater, color, odor, staining and other pertinent characteristics.

Two soil samples will be collected for analysis from each boring/monitoring well, one sample from 0-2' in depth and the second at the groundwater surface (a total of eight samples). The soil samples will be collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24-hours of collection. Once at the laboratory the soil samples will be analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B and Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method SW846 8270C.

Each of the four direct push borings will be completed as groundwater monitoring wells. The wells will be completed with 10 feet of 2-inch diameter schedule 40 PVC 10 slot well screen and up to 10 feet of PVC riser, bottom caps and expandable gripper type locking interior well caps. The well screen will be set across the groundwater surface typically with 3 feet of screen above and 7 feet below the water table. The annular space around the screen will be packed with clear, filter sand to a depth one foot above the top of the well screened interval. A minimum one-foot bentonite clay seal will be placed and hydrated directly above the filter sand. The remainder of the annulus will be backfilled with clean fill, a 6-inch diameter by 10-inch deep steel flush mounted road box will be placed over each well and sealed with a concrete collar. Upon completion each monitoring well will be developed by bailing and surging to remove fine sediments and increase the hydraulic communication between the well and surrounding aquifer.

1.3.4 Shallow Soil Sample Collection and Analysis

A minimum of seven shallow soil samples will be collected in and around the location of the former factory and the shore of the Mill Pond. Each sample will be collected from 0-2' with a pre-cleaned stainless steel bucket type hand auger. After sample collection the bucket auger will be decontaminated with Alconox and triple rinsed with distilled water prior to collection of the next sample. The shallow or



surficial soil samples will assist in the determination of significant risk to human health safety and the environment for the projected future recreational usage of the Caouette Property.

The soil samples will be collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24-hours of collection. Once at the laboratory the soil samples will be analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B and Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method SW846 8270C.

1.3.5 Sediment Sample Collection and Analysis

A minimum of six sediment samples will be collected at the northeastern shore of the Mill Pond. Four samples approximately 50 feet apart will be collected from 0-2' with a pre-cleaned stainless steel bucket type hand auger. An additional two sediment samples will be collected from a depth of 2-4' in two of the sample locations to determine if there is contamination present or absent at the same or differing concentrations with depth. After sample collection the bucket auger will be decontaminated with Alconox and triple rinsed with distilled water prior to collection of the next sample.

The soil samples will be collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24-hours of collection. Once at the laboratory the soil samples will be analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B and Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method SW846 8270C.

1.3.6 Groundwater Sample Collection and Analysis

Groundwater samples will be collected from each of the four newly installed monitoring wells one week after well completion. After opening the cap of each well the depth to the bottom of the well and the depth to groundwater will be measured to determine the thickness of the water column. Then, a low-flow peristaltic pump will be used with dedicated Teflon tubing to collect the groundwater samples. The downhole end of the tubing will be placed approximately in the center of the 10 foot well screen. The other end of the tubing will be attached to a flow-through cell which has direct reading probes to obtain an instantaneous measurement of Redox potential (ORP), pH, conductivity as well as dissolved oxygen, temperature and turbidity. The water sample is pumped through an in-line filter. When the field parameters have stabilized over a 15 minute period the groundwater sample will be collected. The groundwater samples will be collected in glassware provided by the laboratory and properly preserved and transported to Accutest Analytical Laboratory within 24-hours of collection. Once at the laboratory the soil samples will be analyzed for arsenic, total chromium, lead, and zinc by EPA Method SW846 6010B.

1.3.7 Data Evaluation and Phase II Environmental Site Assessment Report Preparation

Prior to preparation of the Phase II Environmental Site Assessment Report (ESA), upon receipt of the soil, sediment and groundwater data, GES will compare the soil and groundwater data to the Massachusetts Department of Environmental Protection (MADEP) reportable concentrations and the sediment data to the "Lowest Ecological Based Criteria". The GES project manager will then contact the Town of Acton and report the preliminary data.

The Phase II ESA report will be prepared for submittal to the Town of Acton Planning Director. The report will be prepared in accordance with the format prescribed in ASTM Phase II ESA Standard E 1903. The report will contain an introduction, background, description of the subsurface exploration program, sample collection, all the relevant findings, conclusions and appropriate recommendations



concerning the former factory site, based upon the results of the Base Scope of Work. The report will include a site locus map, site plan, sample location plan, groundwater flow map, and MAGIS map. Additionally, the report will include data tables for each of the matrices sampled, laboratory data sheets, and boring/monitoring well logs. The report will be submitted to the Town of Acton on or before June 1, 2010.

1.4 Additional and Optional Scope of Work

During the course of the drilling program if there is any indication that volatile organic compounds may be present the following additional scope of services may be implemented as described in the RFQ:

1. Sampling and analysis of four groundwater samples for volatile organic compounds by the full list of EPA Method 8260 compounds.
2. Laboratory analysis of the following geochemical parameters in the groundwater: REDOX potential (ORP), conductivity (specific conductance) and pH.
3. Field Screening with a Photoionization detector (for soil only).
4. Phase II recommendations concerning the future public use and management precautions for the entire land to be purchased by the Town taking into consideration its past and present agricultural use, which includes pesticide applications.

In addition, GES can provide other additional services if requested by the Town of Acton:

5. The project manager/LSP can be available for a client meeting and/or public meeting concerning the findings of the Phase II Environmental Site Assessment Report. This service can be provided on a time and material basis as per the attached unit cost sheet.

1.5 Project Schedule

Based upon the assumption that the project will be authorized by April 21, 2010 the following schedule will be followed:

<u>Task No.</u>	<u>Task</u>	<u>Time Frame</u>
1.	Authorization	April 21, 2010.
2.	Digsafe markout	April 22, 2010
3.	Drilling	April 26, 2010
4.	Soil and Sediment Sampling	April 26, 2010
5.	Groundwater Monitoring, Sampling and Survey	May 3, 2010
6.	Analytical Data Received	May 17, 2010
7.	Preliminary Results submitted to Town	May 17, 2010
8.	Report Preparation	May 17 to 24, 2010
9.	Final Report Submittal to Town	June 1, 2010



2.0 Statement of Assumptions, Exceptions, Corrections, Omissions

GES thoroughly reviewed the work scope provided with the RFP and clarifications discussed during a telephone conversation with Mr. Bartl on April 13, 2010. The following assumptions are provided for further clarification:

- GES and its subcontractors will have access to the property during normal business days to execute the work scope.
- Work will be conducted during standard work hours (8 am-5 pm) and days (Monday-Friday).
- This project will be performed in accordance with the current ASTM Standard E1903-Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process.
- Based upon our understanding of the project requirements, it is assumed that the monitoring well drilling with a direct push drilling rig will take one day. If, due to unforeseen circumstances, such as inclement weather or difficult subsurface conditions the drilling takes longer than one day it will be performed on a time and material basis as per the attached fee schedule.
- It is assumed that the site will be accessible to a truck-mounted direct-push drilling rig. If a track-mounted or ATV mounted drilling rig is required, it can be provided for an adjusted cost.
- Assuming a depth to groundwater of less than ten feet, each well will be drilled to a maximum depth of twenty (20) feet deep.
- The pricing for soil, sediment and groundwater laboratory analysis is based upon a standard 7 to 10 business day turn around time. If the Town of Acton chooses, the analytical turn around times can be accelerated at a premium cost.
- The locations and number of samples proposed to be collected and analyzed are based upon the requirements of the Request for Quote and do not represent a complete assessment of the entire Caouette Property at 2 Stow Street and 90 Martin Streets.
- The proposal does not include the costs for monitoring well decommissioning/ abandonment.

3.0 Subcontracted Services

GES routinely utilizes subcontractors to assist in completing various tasks and has developed a rigorous subcontractor approval process to ensure that subcontractors meet stringent insurance, health and safety, and technical requirements. For the purposes of this proposal, the following subcontractors have been selected to assist GES in completing this project:

Accutest New England
495 Technology Center West, Bldg. One
Marlborough, MA 01752

Crawford Drilling Services, LLC
25 Theodore Road
Westminster, MA 01473



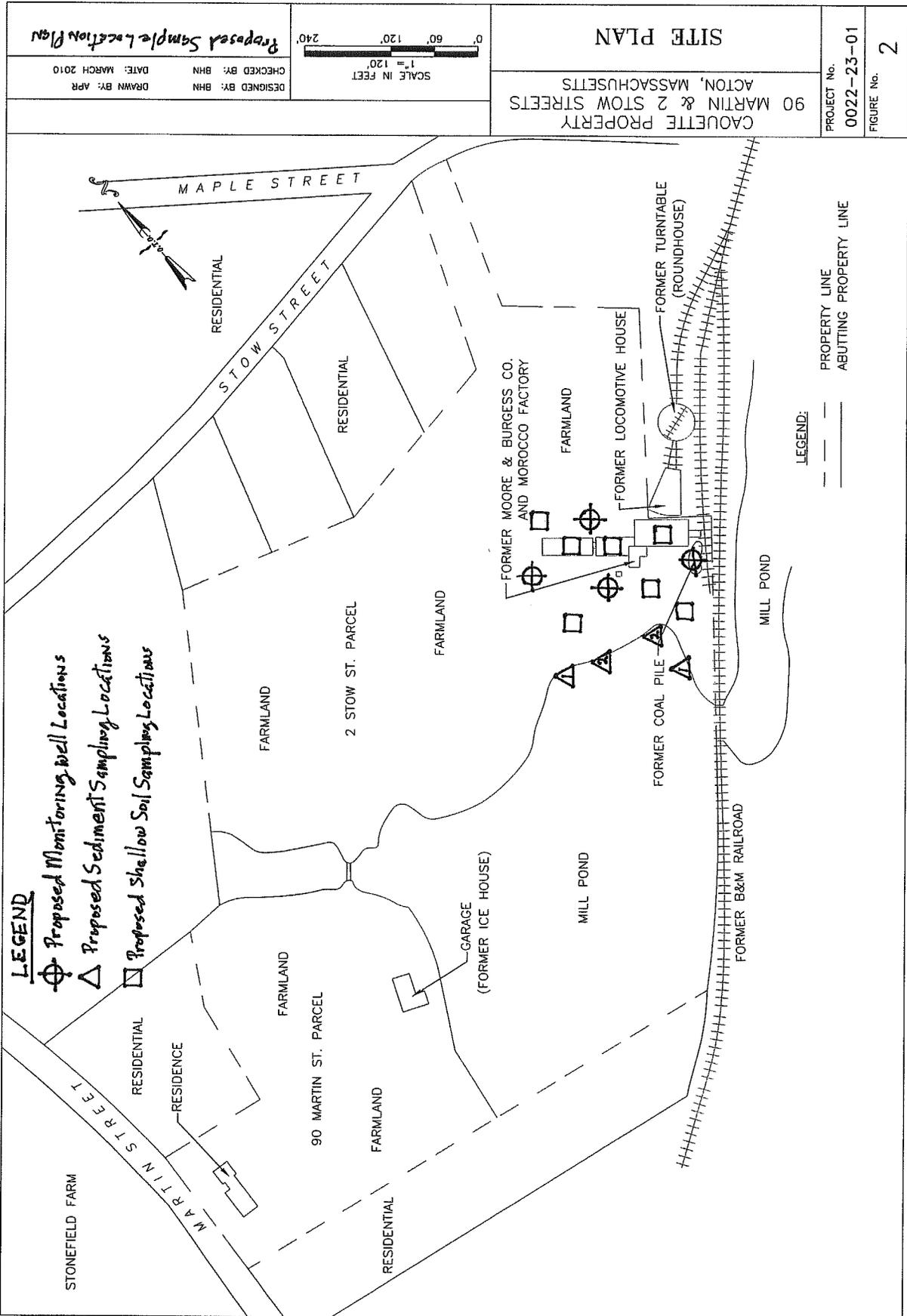
4.0 Pricing

The total estimated cost to complete the above-referenced field and reporting activities for the base proposal is **\$10,385.**

The additional and optional scope items as detailed in the request for quote will total **\$1,410.** Any additional activities beyond the scope of work for the above-listed tasks can be conducted and invoiced on a time and materials basis with the client's advance approval in accordance with the attached schedule of fees. GES' detailed cost estimate has been provided as an attachment.



Sample Location Plan





Scope of Work and Pricing Information

**Town of Acton
Scope of Work Sheet
Fiscal Year 2010
Phase II ESA**



Client Facility ID Caouette Property
Address: 2 Stow St/90 Martin St
City/State: Acton, MA
County: -

Client Contact: Roland Bartl
CM: Michael Penzo
PM: Michael Penzo
GES Project No:

Contract Dates: 4/16/2010 to 6/1/2010
Client Work Authorization:
Contract Reference: -

Scope of Work Description:

The Base Scope:

The Base Scope shall include Phase II ESA, sampling, testing and analysis in appropriate locations of groundwater (at least 4 monitoring wells), Mill Pond sediment (at least 6 samples), and soil (15-20 samples):

1. for heavy metals, including arsenic, chromium, lead, and zinc (for all 3 media) and
2. for polycyclic aromatic hydrocarbons (for soil and sediment samples only)

Additionally the Phase II ESA shall include a final ESA report to the Town of Acton Planning Director with all relevant findings, conclusions, and appropriate recommendations concerning the former factory site as ascertainable from the Base Scope test and analysis results.

TIME AND MATERIALS

Phase-Task	Description	Qty.	Cost	Unit	Total
02-101	HASP Preparation/Update	1	\$170.00	Each	170.00
02-109	Assessment Report	1	\$1,720.00	Each	1,720.00
02-160	Analytical Fees	1	\$3,300.00	Each	3,300.00
02-201	Well Installation/Soil Borings	1	\$4,023.05	Each	4,023.05
02-206	Monitoring Well Sampling	1	\$1,170.00	Each	1,170.00

Phase 02 Site Assessment Total: \$ 10,383.05

TOTAL T&M COSTS: \$10,383.05

TOTAL LS COSTS: \$0.00

TOTAL GES CONTRACT AMOUNT: \$10,383.05

TOTAL DIRECT COSTS: \$0.00

TOTAL CLIENT AMOUNT: \$10,383.05

Approvals:

Client: _____ Date: _____ GES: _____ Date: _____

**Town of Acton
Scope of Work Sheet
Fiscal Year 2010
Additional & Optional Scope
Items of Phase II ESA**



Client Facility ID Caouette Property
Address: 2 Stow St/90 Martin St
City/State: Acton, MA
County: -

Client Contact: Roland Bartl
CM: Michael Penzo
PM: Michael Penzo
GES Project No:

Contract Dates: 4/1/2010 to 6/1/2010
Client Work Authorization:
Contract Reference: -

Scope of Work Description:

Additional & Optional Scope Items of Phase II ESA:

1. Analysis of the 4 groundwater samples for the 8260 Full List of Volatile Organics (one from each of the 4 test well), plus the necessary corresponding additions and modifications to the final ESA report.
2. Analysis for geochemical parameters in the groundwater – REDOX potential, conductivity, and pH (one from each of the 4 test wells), plus the necessary corresponding additions and modifications to the final ESA report.
3. PID field testing for total VOC (for soil only), plus the necessary corresponding additions and modifications to the final ESA report.
4. A Phase II ESA recommendation concerning the future public use and management precautions for the entire land to be purchased by the Town taking into consideration its past and present agricultural use, which includes pesticide applications.

TIME AND MATERIALS

Phase-Task	Description	Qty.	Cost	Unit	Total
08-109	Assessment Report	1	\$820.00	Each	820.00
08-160	Analytical Fees	1	\$514.80	Each	514.80
08-206	Monitoring Well Sampling	1	\$75.00	Each	75.00

Phase 08 General Consulting Services Total: **\$ 1,409.80**

TOTAL T&M COSTS: \$1,409.80

TOTAL LS COSTS: \$0.00

TOTAL GES CONTRACT AMOUNT: \$1,409.80

TOTAL DIRECT COSTS: \$0.00

TOTAL CLIENT AMOUNT: \$1,409.80

Approvals:

Client: _____ Date: _____ GES: _____ Date: _____



GES Unit Cost Sheet



**Groundwater
& Environmental Services, Inc.**

364 Littleton Road • Suite 4 • Westford, Massachusetts 01886 • (800) 221-6119 • Fax (978) 392-8583

**Groundwater and Environmental Services, Inc.
Unit Cost Sheet
April 16, 2010**

<u>Labor Category</u>	<u>Hourly Rate</u>
Principal/LSP/PG	\$130
Senior Professional	\$95
Geologist	\$75
Administrative Professional	\$50

<u>Equipment Rental</u>	<u>Cost/Day</u>
Photoionization Detector	\$75
Combo Meter/DO/pH/T/Redox/Cond. w/data logger	\$150
Pickup Truck Full Size	\$120

<u>Drilling Subcontractor</u>	<u>Cost</u>
Drilling Rig extra day rate	\$1,300/day
Overtime Rate per hour/per crew	\$290/hour

<u>Laboratory Analysis</u>	<u>Cost/Each</u>
Soil/Sediment (per sample)	
Metals Digestion	\$5.50
Arsenic	\$10.00
Chromium (Total)	\$10.00
Lead	\$10.00
Zinc	\$10.00
Polynuclear Aromatic Hydrocarbons	\$105.00
Groundwater (per sample)	
Arsenic	\$10.00
Chromium (Total)	\$10.00
Lead	\$10.00
Zinc	\$10.00
Volatile Organic Compounds (EPA Method 8260B)	\$77.00
REDOX (ORP)	\$33.00
Conductivity	\$11.00
pH	\$8.00



**GES Standard Terms and Condition for Service (10/09)
LSP Identification**



**Groundwater
& Environmental Services, Inc.**

STANDARD TERMS AND CONDITIONS FOR SERVICES (10/09)

This Services Agreement (the "Agreement") is entered into this _____ day of April , 2010 (the "Execution Date") by and between the Town of Acton, Massachusetts. (Client") and Groundwater and Environmental Services, Inc. ("GES").

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, Client and GES agree as follows:

Scope of Services. - The services described in proposal No. MA-2010-0054, MA-2010-0057 and/or dated April 16, 2010("Proposal") shall be authorized by Client by providing an authorized signature on the Proposal (with the Proposal as authorized by Client hereinafter referred to as the "Services") and shall be performed in accordance with the terms and conditions of this Agreement. Any changes to the Services shall be in writing and agreed upon by both GES and Client before the Services are performed. Any changes or additions to this Agreement shall be set forth exclusively as a written amendment executed by the parties, with any additional, different and/or conflicting terms and conditions contained in Client's purchasing documents or other correspondence, any other change or addition to the Services or this Agreement by any other method, being null and void and of no force and effect. As a condition precedent to GES' obligation to perform Services under this Agreement, Client shall, if requested by GES, complete GES' standard credit application and provide any requested financial information in order to assess the creditworthiness of Client. GES may, in its sole discretion, impose credit limits on Client.

Standard of Care. - GES will perform the Services with the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services under similar conditions in the same or similar locality. The foregoing standard is in lieu of all other standards and warranties, express or implied, including warranties of marketability or fitness for a particular purpose. Client acknowledges that environmental conditions at any site can and will vary from those encountered at the times and locations of the performance of the Services thereby resulting in various degrees of uncertainty with respect to the interpretation of environmental conditions despite due professional care.

Compensation. - Unless otherwise stated in the Proposal, GES shall be compensated for the Services on a time and materials basis in accordance with the GES Personnel Rate Schedule and the Equipment Rate Schedule attached as Exhibit A to this Agreement (the "Rates"), including, without limitation, any applicable taxes or other reasonable expenses. GES shall submit invoices monthly and Client agrees to pay such invoices within thirty (30) days of the invoice date. GES reserves the right to charge interest at the rate of .75% per month on overdue payments and Client agrees to pay any reasonable attorney's fees or other costs incurred by GES to collect amounts deemed delinquent by GES. GES reserves the right to modify the Rates at any time upon thirty (30) day written notice to Client.

Term - Unless otherwise stated in the Proposal, or terminated in accordance with Paragraph 16 of this Agreement, this Agreement shall expire upon the completion of the Services.

Access. - Where the Services necessarily require entering into, upon or under real property, including improvements located thereon (the "Site"), Client hereby grants such access, or shall cause such access to

Proposal #: MA-2010-0054, MA-2010-0057 and Date April 16, 2010

be granted, and represents and warrants that GES has such access to the Site in order to perform the Services without delay or hindrance.

Information Provided By Client - Client shall provide to GES all information pertaining to the Services and/or the Site that is known to exist by Client including, without limitation, information related to (a) solid waste, hazardous wastes, substances or materials, toxic wastes, substances or materials, pollutants, contaminants, petroleum or its additives (as any of the above terms may be defined under federal, state or local law ("Law")) (collectively, "Hazardous Substances"); (b) aboveground or underground facilities or services including, without limitation, utilities, conduits, pipes, tanks, wires, electrical or radio frequency fields (collectively, "Utilities"); and (c) subsurface conditions or obstructions. Client represents and warrants that GES shall be permitted to rely on such information.

Utilities/Underground Facilities - GES shall review the information provided under Section 6 of this Agreement and shall contact the customary governmental and/or private entities regarding the existence and location of Utilities prior to conducting any subsurface penetrations. GES shall not be responsible for, and Client shall indemnify, defend and hold GES harmless from and against, any claims for any losses or damages arising from or related to damage to Utilities not identified or not accurately located in accordance with this Section 7.

Confidentiality - GES and Client shall treat as confidential and proprietary all information and data delivered to it by the other party which, without limitation, relates to technologies, formula, procedures, costs, processes, operations, methods, trade secrets, ideas, computer programs, customers, products, equipment or are designated in writing as confidential at time of delivery (collectively, "Confidential Information") and shall not disclose Confidential Information to any third party during or subsequent to the term of this Agreement; provided that such disclosure shall not apply to information and data which are actually known by the disclosing party before obtained from the transmitting party, information and data which are generally available to the public through no fault of disclosing party, or where disclosure is required by law; provided that the disclosing party gives reasonable notice of its intent to disclose in accordance with law allowing the other party to make any reasonable objection to such disclosure.

Intellectual Property - GES shall retain all right, title and interest in and to all intellectual property including, without limitation, patents, copyrights, trademarks, trade secrets, patentable and unpatentable inventions (collectively, Intellectual Property Rights") used or developed by GES in connection with performing the Services including all Intellectual Property Rights relating to all articles, techniques, processes and operations.

Limitations on Services.

Liability Limitations - In addition to the limitations set forth in Section 7 hereof, GES' liability under the provisions of this Agreement or in connection with its performance of the Services, whether based on contract, tort, breach of warranty, professional negligence (including errors, omissions, or other professional acts) or otherwise, shall be limited in each case to the amount recovered by GES under the insurance policies identified in Paragraph 11 of this Agreement or the contract amount set forth in the applicable Proposal, whichever is less. Client hereby forever releases GES from any liability or losses or damages sustained and incurred by Client in excess of such amounts. In no event shall GES be liable for any incidental, indirect, special, punitive, economic or consequential damages (including but not limited to loss of profits) suffered or incurred by Client as a result of this Agreement or GES' performance or non-performance of the Services.

Reliance by Third Parties - The Services are performed, and information, data, interpretations or reports, and the like, that may be prepared as part of the Services ("Instruments of Service") are prepared, for the sole purpose of the Client who may use and rely on the Services and the Instruments of Service for their intended purpose, subject to the other terms and conditions of this Agreement. There are no third party beneficiaries to this Agreement. Client may request that third parties be extended the right to rely on the Services and the Instruments of Service, and such reliance may be granted, in the sole discretion of GES, but only when such parties agree to be unconditionally bound to GES' standard terms and conditions in effect at the time of the request and GES is reasonably compensated for extending such reliance to such third parties.

Liability for Hazardous Substances - Client acknowledges and agrees, and will not dispute, that GES is not, and has no authority to act as on behalf of Client, a generator, an arranger for disposal or treatment, or an arranger with a transporter for transport for disposal or treatment, of any Hazardous Substances that may be present, found or identified at, on, in, above, to, from or under any Site or other sites that may be the subject of or related to the Services. Any assistance provided by GES to Client for the treatment, storage, transport or disposal of any Hazardous Substances including, without limitation, Client's written request that GES sign Client's manifests as its authorized agent, are made solely and exclusively for the benefit and convenience of Client and shall impose no liability upon GES. Client shall manage all Hazardous Substances in compliance with Law. Unless otherwise agreed, Client shall sign all manifests and obtain all generator identification numbers when required by law or when requested by GES. GES may furnish the Client the names of facilities currently licensed to accept Hazardous Substances, but it shall be the Client's sole responsibility to select those to be engaged by Client.

Insurance - GES shall maintain the following minimum insurance coverage while performing the Services:

Workers Compensation and Employer's Liability: \$1,000,000

Commercial General Liability: \$1,000,000 Each Occurrence, \$2,000,000 Aggregate

Automobile - \$1,000,000

Pollution & Professional Liability - \$1,000,000 Each Occurrence and \$2,000,000 in the Aggregate

Indemnification - Subject to the provisions of Paragraph 10 of this Agreement, GES shall indemnify and hold Client harmless from and against any liabilities, losses, claims, orders, damages, fines and penalties (collectively, "Claims") arising out of or related to negligent acts or omissions of GES in the performance of the Services. Client shall indemnify and hold GES harmless from and against any Claims arising out of or related to (i) the negligent acts or omissions, or violations of Law, of Client and (ii) Hazardous Substances that are present at, released to or from, treated at, or removed from, the Site. To the extent that the Scope of Work includes the providing of Licensed Site Professional services, the additional conditions outlined in Attachment A titled "Indemnifications for LSPs" are made part of this agreement in their entirety.

Independent Contractor - GES is an independent contractor and assumes no obligation or responsibility as an agent, partner, or joint venturer of Client.

Force Majeure - GES shall have no liability for failure to perform or delay in performance caused by conditions or events beyond GES' control including, without limitation, strike, fire, flood, explosion, acts of nature, acts of government, act or war, riot, terrorism, labor disputes or disturbances, transportation

delays, the inability to obtain material or equipment, or the discovery of Hazardous Substances that were previously unknown.

Proposal #MA-2010-0054, MA-2010-0057 and Date April 16, 2010

Attachment A



Groundwater & Environmental Services, Inc.

"Indemnification for LSPs"

Services under this Contract requiring the retaining of a Massachusetts Licensed Hazardous Waste Site Cleanup Professional ("LSP") under MGL Chapter 21A and the regulations promulgated by the Commonwealth of Massachusetts Department of Environmental Protection ("MADEP") including but not limited to the Massachusetts Contingency Plan (MCP) 310 CMR 40.00000, the following shall apply:

1. The LSP has a duty to disclose the presence of environmental contaminants to the MADEP (at certain times).
2. If the LSP's obligations conflict with the terms and conditions of this contract, that the LSP is bound by law to comply with requirements of the MCP.
3. The LSP shall always exercise independent professional judgment in the rendering of Opinions and requests for additional investigations, tests, or other services which, in the LSP's professional judgment, are necessary to permit the LSP to render Opinions.
4. The LSP shall be immune from all civil liability resulting from any alleged conflict with the LSP Program.
5. Except for the provisions of the MCP, any Opinions rendered are for the sole and exclusive use of Client, and are not intended for the use of or reliance upon by any third parties without the prior written approval of GES.
6. Client agrees to hold the GES and the LSP individually harmless for any claims, losses, damages, fines, or administrative, civil, or criminal penalties resulting from the LSP's fulfillment of its obligations under the MCP and related Regulations and/ or allegedly suffered by third parties due to the unauthorized reliance on any Opinion provided.
7. Client is not required to indemnify, hold harmless, and defend GES and the LSP individually for any claims, losses, or damages caused directly by the gross negligence or willful misconduct of GES or the LSP.
8. MADEP is required to audit 20% of Massachusetts Contingency Plan (MCP) 310 CMR 40.0000 submittals. Site investigations and remedial actions require the submittal of LSP Opinions based on limited data, data interpolation, and professional experience. MADEP audits may consider an LSP Opinion deficient and may require the collection and submittal of additional data.
9. GES written responses to MADEP audit findings are not included in proposed scopes of work or project costs and GES shall have no contractual obligation to respond to MADEP audit findings, unless Client and GES agree to otherwise in writing.

Dispute Resolution - Any dispute arising out of or related to the Services or this Agreement shall be resolved, if not first by reasonable negotiation, by binding Arbitration under the rules of the American Arbitration Association.

Termination - Either party may terminate this Agreement upon thirty (30) day written notice to the other party. Should Client terminate this Agreement, Client shall reimburse GES for its actual fees, expenses and costs that have been generated, incurred, expended or committed in furtherance of the Services and the reasonable costs associated with termination, including demobilization.

Integration - This Agreement, and its exhibits and Proposals, constitutes the entire agreement by and between GES and Client, and supersedes any prior agreements, whether written or oral, including, without limitation, any additional or different terms and conditions that may be contained in documents transmitted to GES.

Severability - In the event that any provision of this Agreement is held to be unenforceable under law, the remaining provisions shall remain in full force and effect.

Governing Law - This Agreement shall be governed by the law of the Commonwealth of Pennsylvania.

Survival - The provisions in Paragraphs 7, 8, 10 and 12, of this Agreement shall survive the expiration or earlier termination of this Agreement.

IN WITNESS WHEREOF, GES and Client have caused this Agreement to be executed by their duly authorized representatives.

Client

By:

Name: Mr. John Murray

Title: Asst. Town Mgr. Town of Acton, MA

Date:

GES

By:

Name: Steven D. Charron, PG, LSP

Title: Site Operations Manager

Date: 4/30/2010