

SUBSURFACE INVESTIGATION REPORT AND SUB SLAB VAPOR MITIGATION DESIGN

SUBMITTED TO:

New York State Department of Environmental Conservation
Department of Environmental Remediation
625 Broadway
Albany, New York 11207

ON BEHALF OF:

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**SUBSURFACE INVESTIGATION REPORT AND SUB SLAB VAPOR MITIGATION
DESIGN**

**BAE SYSTEMS
BUILDING 2
GREENLAWN, NEW YORK**

NYSDEC Site Number: 1-52-005

SEPTEMBER 2012

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1.0 INTRODUCTION

P.W. Grosser Consulting, Inc. (PWGC) has prepared this Subsurface Investigation Report and Sub-Slab Vapor Mitigation Design on behalf of BAE Systems (BAE) in order to document the investigation activities performed to define the extent of chlorinated volatile organic compounds (VOCs) in the soil and soil vapor at BAE Building 2. This report also documents the results of pilot testing and describes the design basis for a proposed sub-slab vapor mitigation system (SSVM). The work was performed in response to actions taken by the New York State Department of Environmental Conservation (NYSDEC) which has resulted in the BAE site being added to the State's Legacy Site Listing (Site Code 1-52-005).

1.1 Site Description

BAE Building 2 is one of five main buildings located at a facility which covers approximately 23 acres in Greenlawn, New York. The facility is located southeast of the intersection of Cuba Hill Road and the Port Jefferson Branch of the Long Island Railroad as illustrated on **Figure 1**. Building 2 resides on the east side of Cuba Hill Road as illustrated on **Figure 2**.

1.2 Background

The BAE site was classified as a Class 2 Inactive Hazardous Waste Disposal site in March 1994 as a result of the detection of VOCs, specifically tetrachloroethylene (PCE), in shallow soils beneath the former Alodine Room. The site was reclassified as a Class 4 site in May 1995 and delisted in September 1997. The presence of the PCE was documented in the early 1990s during a Resource Conservation Recovery Act (RCRA) Closure of the Alodine Room by BAE's predecessor, Hazeltine Corp. While the conditions at the site were known to the NYSDEC at that time, the conditions were not actionable by the Department and no action beyond an application of an epoxy floor coating for the Alodine Room was required. Recent (2006) guidance policy changes in the New York State Department of Health (NYSDOH) regarding the potential for soil vapor intrusion has required the NYSDEC to review their closed case files to identify known sites where previously documented conditions have the potential to create a vapor intrusion problem. Over 400 sites are currently listed as Legacy Sites as a result of the vapor intrusion policy changes.

In March and April of 2010, the NYSDEC, through its subcontractor AECOM Technical Services Northeast, Inc of Bloomfield, NJ, performed an investigation in and around Building 2 to evaluate current subsurface conditions. The investigation primarily focused on the soil quality and soil vapor conditions beneath, and in the vicinity of, the former Alodine Room. While the investigation revealed the presence of PCE in soil samples, the detected concentrations were not actionable as they were below NYSDEC's Industrial Soil Cleanup Objectives (SCOs). The investigation did confirm the presence of soil vapor conditions beneath portions of the Building 2 floor slab that, when compared to NYSDOH soil vapor criteria, would require mitigation measures to prevent the potential for migration of the soil vapors into the occupied building space. The results of the AECOM investigation are contained in their draft report entitled *Draft Soil Vapor Evaluation, Hazeltine Corporation, Site No. 1-52-005, June 2010*.

BAE met with the NYSDEC in September 2010 to discuss the project and gain their concurrence for the path forward. In response to the findings of AECOM's investigation, BAE voluntarily performed extensive investigation in order to define the extent of the soil vapor condition at Building 2 and design a mitigation measure. The findings of that investigation and proposed mitigation measures are presented below.

2.0 SUBSURFACE INVESTIGATION

PWGC prepared a work plan entitled *Subsurface Investigation Work Plan, January 2011* which outlined the methodologies to be employed to achieve the following objectives:

- Evaluate the area in and around the former Alodine Room for the presence of potential sources of PCE contamination;
- Delineate the extent of the soil vapor condition beneath Building 2
- Gather the information required to formulate a mitigation measure

The proposed investigation included several investigative techniques including:

- Geophysical survey and exploratory excavation program to evaluate the subsurface for potential sources
- Soil boring and sampling program
- Soil vapor and indoor air sampling program

The investigation work was proposed to comply with NYSDEC *Division of Environmental Remediation Document 10 (DER-10)* and NYSDOH *Guidance for Evaluation of Soil Vapor Intrusion, October 2006*.

The Work Plan was provided to the NYSDEC in January of 2011 for its review and approval. In a March correspondence to BAE, the NYSDEC acknowledged receipt of the Work Plan but offered neither their approval nor comment as BAE's investigation is strictly voluntary and under no formal agreement with the NYSDEC.

The results of the investigation are presented in the following sections.

2.1 Geophysical Survey

In March 2011, PWGC conducted a geophysical survey of the area to the north and east of Building 2 (courtyard area) in order to locate potential subsurface structures which may have acted as, or are currently acting as, sources of chlorinated VOCs. The geophysical survey area is indicated on **Figure 3**.

A metal detector and ground-penetrating radar (GPR) provided by NAEVA Geophysics, Inc. (NAEVA) of Congers, New York were utilized for the survey. Anomalies detected during the survey were marked on the ground and documented in a Geophysical Report provided by NAEVA (**Appendix A**).

The geophysical survey identified several anomalies in the rear courtyard area warranting further investigation through either soil borings or exploratory excavation.

2.2 Soil Borings

Soil borings were performed in and adjacent to the Alodine Room (GP-1 through GP-5) in order to further delineate the occurrence of chlorinated VOCs detected beneath the Alodine Room in previous investigations. Soil borings were also performed in the area to the north and east of Building 2 (GP-6 through GP-12) to determine soil quality adjacent to the underground anomalies detected during the geophysical survey. Soil borings were also performed through storm water drywells SD-1, located in the rear courtyard of Building 2 and SD-2, located on the east side of Building 2 near the Compactor Room. Additionally, soil samples were collected from six of the sub-slab vapor sampling locations, prior to the installation of vapor probes during the July 2011 sampling event. Soil sampling locations are indicated in **Figure 4**.

Soil borings were performed utilizing a Geoprobe® direct-push drill rig to drive soil samplers to desired sampling depths. Soils samples were characterized by a PWGC hydrogeologist and field-screened for VOCs with a properly-calibrated photo-ionization detector (PID). At outdoor boring locations, soils were sampled continuously to a depth of twenty feet below grade surface (bgs). At indoor boring locations, soils were sampled continuously to a depth of eight feet bgs.

Site soils were generally characterized as brown or beige sands with pebbles. Shallow, narrow layers of clay were identified in some of the borings. Elevated PID responses were not measured in the boring samples. Boring logs are included as **Appendix B**.

One sample from each boring location was submitted to Alpha Analytical Laboratory in Westborough, Massachusetts for analysis of PCE, and its breakdown compounds trichloroethene (TCE), cis-1,2-Dichloroethene (DCE), and vinyl chloride by EPA Method 8260.

Soil Boring Analytical Results

Soil analytical results were compared to Soil Cleanup Objectives (SCOs) specified in NYSDEC Part 375 and the CP-51 Soil Cleanup Guidance. VOCs were not detected in the soil boring samples with the exception of low concentrations of PCE in GP-12 (6.4 µg/kg), located east of Building 2, catch basin SD-1 (23 µg/kg), the Oracle Training Room sample OT (120 µg/kg), and the Safety, Health, and Environment office area sample SHE (11 µg/kg). These concentrations were within the SCO for PCE of 1,300 µg/kg. Soil sample analytical results are summarized on **Table 1**. Laboratory Reports are included in **Appendix C**.

The results of the soil boring program revealed no evidence of elevated VOC concentrations indicative of a contaminant source that could be contributing to the elevated PCE concentrations in the sub-slab vapor beneath Building 2.

2.3 Test Pits and Underground Injection Well Characterization

In order to further investigate anomalies detected during the geophysical survey, exploratory test pits were performed utilizing a back-hoe. Excavation services were provided by American Environmental Assessment Corporation (American) of Wyandanch, New York. The test pits were excavated in August and October 2011. The exploratory excavation work revealed three Underground Injection Wells (UIW) in the form of subsurface leaching pools (designated LP-2, LP-3, and LP-4 on **Figure 4**). An inspection of the associated piping indicated that leaching pools LP-2 and LP-3 received roof drainage. At this time it appears that LP-4 was an abandoned pool which may have received discharge from the metal parts de-burring process in the former Alodine Room of Building 2. Leaching pool LP-4 subsequently overflows into leaching pool LP-1, which has a solid at-grade cover.

Samples of the sediment residing at the base of leaching pools LP-1, LP-2, LP-3 and LP-4 were collected utilizing a hand auger. Sediment samples were not collected from catch basins SD-1 and SD-2 as these were sampled previously during the soil boring program (see Section 2.2). Catch basin SD-1 is an open grate catch basin which receives roof drainage and surface runoff and overflows into leaching pool LP-1. Catch basin SD-2 is a small, shallow structure (four foot depth) which receives surface runoff adjacent to a door on the east side of Building 2.

Test pit sample TP-1 was collected from the location of a metal anomaly was detected near the north property boundary. Test pit sample S-1 was collected from beneath the joint of a drainage pipe. Test pit sample S-2 was collected from a suspected piping location to the north of Building 2. However, upon investigation, piping was not observed.

Characterization Analytical Results

Analytical results were compared to SCOs specified in NYSDEC Part 375 and the CP-51 Soil Cleanup Guidance. PCE, TCE, and cis-1,2-DCE were detected in the sediment sample collected from the base of leaching pool LP-1. Only TCE exceeded the SCO in the sample. The detection of these compounds may be the result of discharge from the de-burring process, or disposal to catch basin SD-1. PCE was also detected in test pit samples S-1 (190 µg/Kg) and S-2 (99 µg/Kg). No detectable VOC concentrations were reported in the samples from leaching pools LP-2, LP-3, and LP-4. The analytical data is summarized on **Table 1**. The laboratory reports are included in **Appendix C**.

Based upon the exploratory excavation work performed, three previously unknown UIWs were identified. Two of these, leaching pools LP-2 and LP-3 receive only roof runoff and reported no VOC detections, therefore no further action is proposed. Leaching pool LP-4 is inactive and is recommended for closure under the oversight of the Suffolk County Department of Health Services (SCDHS) who administers the Underground Injection Control program locally. Leaching pool LP-1 is still active and is recommended for further evaluation for remediation under SCDHS oversight.

2.4 Sub-Slab Vapor and Indoor Air Sampling

In order to further define the extent of the sub-slab PCE vapor beneath Building 2, sub-slab vapor samples, indoor air samples, and outdoor air samples were collected in March and August 2011. The March 2011 sampling event focused on the areas of Building 2 immediately around the Alodine Room while the August 2011 event served as a supplemental “step-out” sampling event focused on delineating the outer extents of the soil vapor condition. Sampling work was performed in accordance with NYSDOH *Guidance for Evaluating Soil Vapor Intrusion, October 2006*.

Eleven permanent soil vapor probes were installed with sampling ports finished to grade with solid covers, flush-mounted to the floor. Sampling locations are indicated on **Figure 5**. Each sampling probe was installed in accordance with the Work Plan. The integrity of the seals of each sampling port was confirmed through the requisite tracer gas tests.

An indoor air sample was simultaneously collected in the vicinity of each sub-slab vapor sampling location.

One outdoor air sample was collected adjacent to Building 2 for each of the two sampling events in order to characterize site-specific background outdoor air conditions. A representative sample is one that is not biased toward obvious sources of volatile chemicals.

Samples were collected into 2.7-liter Summa[®] vacuum canisters fitted with 8-hour flow controllers.

The sub-slab vapor, indoor air, and outdoor air samples were submitted to an Alpha Analytical Laboratory for analysis of PCE, TCE, cis-1,2-DCE, and vinyl chloride by USEPA Method TO-15.

Analytical Results

The primary method for the evaluation of sub-slab vapor and indoor air data is the use of Soil Vapor / Indoor Air Matrices provided in the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion, October 2006*. The matrices incorporate both sub-slab vapor

concentrations and their corresponding indoor air concentrations in a table to formulate an appropriate action for a sampling site. Analytical results for the sub-slab vapor and indoor air samples are summarized on **Table 2**. The laboratory data report is included in **Appendix C**.

Based on the concentrations of PCE detected in the sub-slab vapor samples, mitigation is the action recommended by the NYSDOH matrix for nine of the eleven sampling locations. Mitigation or Monitoring, based on site-specific conditions, is the recommended action for the lower PCE concentrations in the Facilities Storage and the Model Shop South locations. However, mitigation is the recommended action for the Model Shop South area based on the TCE concentration detected at that sub-slab location. The Soil Vapor and Indoor Air Matrix summaries for each sampling location are included as **Table 3**.

No further action was recommended for the detected concentrations of DCE and vinyl chloride in the sub-slab vapor and indoor air samples.

Indoor air concentrations were also compared to the NYSDOH Indoor Air Guidance Values for PCE (100 $\mu\text{g}/\text{m}^3$), TCE (5 $\mu\text{g}/\text{m}^3$), and methylene chloride (60 $\mu\text{g}/\text{m}^3$). The indoor air concentrations of each of these compounds were well within their respective Indoor Air Guidance Values for each of the eleven indoor air samples collected.

Based upon the data collected from the sub-slab vapor sampling event, PCE is the primary driver for the mitigation of the vapor beneath Building 2 and will require measures to prevent the migration of the vapor into the building space.

2.5 Soil Vapor Sampling (Outdoor)

In March 2011, six soil vapor samples (SV-1 through SV-6 as indicated on **Figure 5**) were collected to the north of Building 2 to determine soil vapor quality in this area to assess the results of the previous investigation performed by AECOM. The sampling probes were installed to a depth of eight feet utilizing a Geoprobe®. The samples were collected into 2.7 liter Summa canisters over a two-hour duration.

The soil vapor samples were submitted to Alpha Analytical Laboratory for analysis of PCE, TCE, cis-1,2-DCE, and vinyl chloride by USEPA Method TO-15.

Soil vapor sampling was also performed by H2M of Melville, New York on February 16, 2011. H2M collected two samples (SV-1 H2M and SV-2 H2M) near the south property boundary, south of Building 2. The samples were collected into 6-liter Summa canisters for a two-hour duration.

Analytical Results

Elevated concentrations of PCE, TCE, and cis-1,2-DCE were detected in the soil vapor samples, consistent with the sub-slab vapor concentrations detected under the Building 2 floor. Vinyl chloride was not detected in the soil vapor samples. Analytical data is summarized on **Table 2**. The laboratory data sheets are included in **Appendix C**. The highest concentrations were detected in SV-2 (52,600 µg/m³ of PCE), which were comparable to the highest concentrations detected in the sub-slab vapor samples.

2.6 Quality Assurance / Quality Control

Samples collected during the Subsurface Investigation were analyzed by a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory. Additional QA/QC samples included field duplicates and trip blanks. The laboratory provided analytical data in a NYSDEC Analytical Services Protocol (ASP) Category B data deliverable format.

3.0 SUB SLAB VAPOR MITIGATION OBJECTIVES

Based on the findings of the subsurface investigation, PWGC recommends the installation of an active Sub Slab Vapor Mitigation (SSVM) system to prevent the potential intrusion of chlorinated VOC vapors to the indoor air of BAE Building 2.

The investigation was successful in achieving its stated objectives as described below.

Objective 1 - Evaluate the area in and around the former Alodine Room for the presence of potential sources of PCE contamination.

Through a combination of geophysical surveys, exploratory investigations, soil borings and laboratory analysis of soil, sediment and vapor samples, PWGC did not identify areas or conditions that would be indicative of a significant or persistent source of PCE contamination.

Objective 2 - Delineate the extent of the soil vapor condition beneath Building

Through the performance of two phases of sub-slab and indoor air sampling, PWGC has identified sub-slab vapor conditions that warrant mitigation through the majority of the Building 2 footprint. Mitigation measures are therefore recommended to address the entirety of Building 2.

Objective 3 - Gather the information required to formulate a mitigation measure

Based upon the conditions observed in the sub surface beneath Building 2, which consisted of coarse to medium grained sands, the use of a SSVM system was deemed a feasible mitigation measure. This information was used by PWGC to formulate a pilot test to generate the information necessary to develop a full scale SSVM design. The results of the pilot test and SSVM design basis are presented in the following sections.

4.0 DESCRIPTION OF AN ACTIVE SUB SLAB VAPOR MITIGATION (SSVM) SYSTEM

The SSVM system utilizes vacuum extraction pits connected to blowers which create a negative pressure gradient beneath the slab. The negative pressure draws sub-slab vapor toward the pits and up through piping above the roof, discharging vapors to the outside air.

The geology of the site is an important factor in determining whether an SSVM system will be a viable remedy. The permeability of the sub-slab soils determines the rate at which soil vapor can be extracted and the effective radius of influence of an SSVM system.

As shown in Appendix B, sub slab soils at the subject site were primarily composed of coarse to medium-grained sands which lend to higher permeability supporting the use of a vacuum based system.

In consideration of the existing Building 2 infrastructure, a typical horizontal piping configuration was not practical. Therefore, PWGC proposed a configuration utilizing the installation of individual vacuum extraction pits. The basis for this approach was based on PWGC's experience with other similar projects and the following publications:

- *Sub-Slab Depressurization for Low Permeability Fill Material*, USEPA Handbook, Office of Research and Development, EPA625/6-91/029, July 1991
- *Radon Prevention in the Design of Schools and Other Large Buildings*, USEPA Office of Research and Development, EPA625/R-92/016, June 1994

Based upon the known conditions at the site, the use of a vacuum extraction pit design basis was chosen for further evaluation through on-site pilot testing.

5.0 PILOT TEST

5.1 Description of Pilot Test

An SSVM pilot test was performed at the site on December 22, 2011. The purpose of the pilot test was to evaluate the feasibility of operating a full scale SSVM system in Building 2. During the pilot test, data was collected for use in the design of a full-scale, building-wide SSVM system.

A permanent SSVM pit was installed in the tool crib of Building 2 for use during the pilot test. The pilot test utilized a single SSVM pit as well as 5 vacuum monitoring points located at varying distances from the pit, as shown in **Figure 6**. The pit was located near the center of the building, away from footing walls and other obstacles that could potentially inhibit the airflow beneath the slab or cause a short circuit scenario. In addition, the pit was strategically placed in an area that exhibited high sub slab soil concentrations of VOCs. This will allow the SSVM pit used in the pilot test to be effectively integrated into the full scale system.

A detailed cross section of the SSVM pilot pit is shown on **Figure 7**. Photographs of the SSVM pilot pit are included as **Appendix F**.

5.2 Methodology

The pilot test consisted of a step test and a vacuum response test, both of which are described in detail below. The step test was performed to determine the relationship between applied vacuum and soil vapor flow rate. The vacuum response test was then performed to establish the radius of influence (ROI) at specific flow rates established by the step test.

The SSVM pilot test was performed utilizing a 1.5 hp, skid-mounted blower assembly from J.E. Gasho & Associates, Inc. (Gasho). The SSVM pit was securely connected to the blower inlet via 2-inch vacuum hose with cam and groove fittings. The vacuum provided by the blower drew air from beneath the slab through the SSVM pit, through a moisture separator, then exhausted to the exterior of the building via a 2-inch vacuum hose. The

volumetric flow rate, measured in standard cubic feet per minute (scfm), and the applied vacuum, measured in inches of water column ("wc), produced by the blower were recorded throughout the pilot test. In addition, vacuum measurements were taken at each of the 5 monitoring points throughout the vacuum response test for the purpose of ROI analysis.

The blower assembly provided by Gasho was equipped with an in-line moisture separator. A significant amount of water captured by the pilot system moisture separator during the pilot test would indicate the presence of either a perched water table or potential pipe leakage below the slab in the vicinity of SSVM pit. Since the presence of water can interfere with the operation and effectiveness of an SSVM system, this was closely observed. However, no moisture was encountered during the pilot test.

5.3 Stage 1 - SSVM Step Test

The first stage of the pilot test, the SSVM Step Test, is conducted to determine the relationship between applied vacuum and soil vapor flow rate from the SSVM pit. This relationship is used to determine the effective flow rates for testing during the Vacuum Response Test.

During the Step Test, the vacuum at the blower inlet begins at zero and is increased incrementally over time. The vacuum is stabilized at specific manometer readings that correspond to specific flow rates. At each flow rate, the vacuum (psi) was recorded from the vacuum gauge attached to the blower assembly and recorded in Appendix D. The vacuum is increased until negligible flow increases are observed (or the full potential of the blower has been realized), at which point the maximum vacuum and corresponding soil vapor flow rates are established and recorded.

If groundwater is pulled into the system before this point, the Step Test would be temporarily terminated and the highest achievable vacuum without experiencing water being pulled into the system would be determined.

The flow rates, velocity and the corresponding vacuum readings are recorded and tabulated as shown in Appendix D. The Vacuum vs. Flow Rate is then plotted and

observed (Figure 8). The graph is analyzed and three incremental flow rates are selected for use in the vacuum response test. These flow rates and their respective ROIs will be further analyzed in the following section.

5.4 Stage 2 - SSVM Vacuum Response Test

The SSVM Vacuum Response Test is the second stage of the Pilot Test. The results from this test are used to determine the ROI of the system and estimate the flux of contamination removed from the soil beneath the slab at the different vacuum levels and flow rates. The vacuum influence on each of the 5 monitoring points was recorded using a digital manometer.

The SSVM Vacuum Response Test involved maintaining the pilot system at the incremental flow rates established during the step tests. Each flow rate was maintained for a one-hour period during which the vacuum response at each monitoring point was measured every 5 minutes.

During the SSVM Vacuum Response Test, the following parameters were monitored:

- Applied vacuum at the blower inlet using a vacuum gauge included as part of the blower assembly;
- Air stream pressure, through the use of a pito tube and digital manometer, from which volumetric air flow rates were determined.
- Vacuum at monitoring points MP-1 through MP-5 using a digital manometer to determine vacuum influence at different radial distances from the SSVM pit.

The vapor withdrawn during the pilot test was sampled at the end of each of the vacuum response tests using 6-liter Summa® canisters. The Summa® canister samples were submitted to Alpha Analytical Laboratory for analysis of vinyl chloride, cis-1,2-DCE, TCE, and PCE in accordance with EPA Method TO-15.

Hydrocarbon recovery rates are calculated using the following equation:

$$R_H = \left(\frac{0.00009 C_a \dot{V}}{24} \right)$$

R_H = Hydrocarbon Recovery in pounds per hour (lb/hr)

C_a = Air Concentration in milligrams per cubic meter (mg/m³)

\dot{V} = Volumetric Flow Rate in standard cubic feet per minute (scfm)

6.0 PILOT TEST RESULTS

6.1 Stage 1 - SSVM Step Test

The relationship between vacuum and air flow rate for the SSVM system was determined during the step test. During the test, the vacuum applied to the SSVM pit was increased incrementally from 0 "wc to 22 "wc. As these changes were made, the air flow rate increased to a maximum of 80 scfm at a vacuum of 22 "wc. The incremental data was recorded and plotted. The relationship between flow rates (scfm) and vacuum ("wc) can be seen in **Figure 8**. As expected, groundwater was not encountered during the pilot test.

Three air flow rates were selected for use in the vacuum response test. The three points correspond with a low, medium, and high level in relation to the results from the Step Test. The flow rates selected were 40, 60, and 80 cfm.

6.2 Stage 2 - SSVM Vacuum Response Test

The ROIs were determined for the SSVM system operation at three flow rates (40, 60 and 80 scfm) during the vacuum response test. The SSVM system was tested for approximately 60 minutes at each of the respective flow rates.

Figure 9 shows the vacuum observed at the three farthest monitoring points, plotted against their distance from the SSVM pit. A linear regression line has been fitted to the data points and extended until it intercepts the x axis (distance from SSVM pit). The "X" value at the intercept represents the distance where the ROI is estimated to be 0 "wc. The ROI for the 40 and 60 scfm flow rates is estimated at approximately 70 feet while the ROI for the 80 scfm flow rate is estimated to be approximately 90 feet.

At each flow rate (40, 60 & 80 scfm), air samples were taken from a sample tap located just downstream of the pit and upstream of the blower. The samples were analyzed and the results are summarized on **Table 4** below:

Table 4:

constituent	40 scfm		60 scfm		80 scfm	
	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³
vinyl chloride	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	468	1860	474	1880	503	1990
trichloroethene	432	2320	411	2210	488	2620
tetrachloroethene	35700	242000	33000	224000	35400	240000

The concentration of each constituent varies by less than 10% between each increase in flow rate. This indicates that, although the ROI increased, the average level of contamination through the ROI remained relatively constant. Based on the Hydrocarbon Recovery formula presented above, the mass flow rate () of the contaminants removed by the SSVM system has been calculated and is shown on **Table 5** below:

Table 5:

constituent	40 scfm	60 scfm	80 scfm
	☐ (lb/hr)	☐ (lb/hr)	☐ (lb/hr)
cis-1,2-dichloroethene	0.0003	0.0004	0.0006
trichloroethene	0.0003	0.0005	0.0008
tetrachloroethene	0.0363	0.0504	0.0720

The SSVM system requires air permitting as it is not considered a trivial or exempt activity per 6NYCCR 201-3. Based on a conversation with the NYSDEC Region I, the system would be considered a process of emissions. The system falls into a minor source category as total emissions would fall below half of Title V thresholds; therefore, a registration would be filed. Per 6 NYCRR 212, the degree of air cleaning for contaminant emission rate potential less than 1 lb/hr shall be specified by the Commissioner (NYSDEC).

An initial screening was conducting using DAR-1 guidelines. The basic cavity impact analyses performed indicated no annual or short term cavity impacts would occur from this

source (the proposed stack height of 26 feet (building height 16 feet and the proposed stack is 10 feet above the roofline) is greater than the building cavity height (1.5 x building height)). The point source method was then conducted. Based on the ratio of heights, there is a 0.75 reduction rate to account for the plume rise. The highest concentrations from the pilot test for the detected contaminants [cis-1,2-DCE (503 ppbv), TCE (488 ppbv), and PCE (35,700 ppbv)], the exit flow rate of 80 cfm, and an effective height of 28.4 ft were used in the DAR-1 equations shown below. Only PCE resulted in an exceedance of AGC/SGC thresholds. With the 0.75 reduction rate, the calculated maximum potential annual impact for PCE yielded 1.56 ug/m³ which is slightly above the 1.0 ug/m³ AGC. This result is for one emission point. The system has five emission points of which all are proposed to be 10 feet above the building roof line.

Maximum Actual Annual Impact

$$C_a \text{ (ug/m}^3\text{)} = (6.0*Q_a)/(h_e^{2.25})$$

where Q_a is in lbs/yr and h_e is in feet

Maximum Potential Annual Impact

$$C_p \text{ (ug/m}^3\text{)} = (52500*Q)/(h_e^{2.25})$$

where Q is lbs/hr and h_e is in feet

Maximum Short Term Impact

$$C_{st} \text{ (ug/m}^3\text{)} = C_p * 65$$

The preliminary contaminant discharge data collected during the pilot test represents an initial release of VOC vapors. Following the activation of the full-scale SSVM system, these concentrations are expected to diminish substantially with the further release of these trapped vapors. Therefore, further evaluation of contaminant discharge will be made following the activation of the full-scale system to measure actual discharge levels to determine if treatment of the effluent is appropriate.

Based on the pilot test data, the emissions from the initial SSVM pit will be treated through carbon vessels until VOC emission levels reduce to acceptable levels. The need for

emissions treatment for the remaining three pits to be installed will be based upon the results of their pilot testing.

7.0 FULL SCALE SSVM DESIGN

7.1 Description of Engineering Controls

The engineering controls recommended for the site consist of the installation of five SSVM pits which will be utilized to create a negative pressure gradient in the sub-slab of Building 2 through the use of five (5) high-flow vacuum pumps.

7.2 System Description

PWGC has prepared a preliminary design for an SSVM system to be installed at Building 2. The system will consist of five separate, independent SSVM systems as shown in **Figure 10**. Each system will create an ROI which will cover a portion of the buildings sub slab. Four of the individual systems are designed to cover the main portion of the building, and one smaller system is designed to cover the compactor room and the evaporator room which are isolated from the main building by a separate footing.

Each system is comprised of an SSVM pit with indoor and outdoor piping running to a dedicated roof mounted blower unit.

The four primary system's components include the following:

- SSVM Pit
- Riser pipe
- Regenerative Blower Assembly
- Variable Frequency Drive (VFD)
- Instrumentation and Controls

Each blower system will have integral local and remote monitoring capabilities tied to Building 2's Building Management System (BMS). The VFDs will operate the blower's electric motors, allowing the vacuum and flow rate produced by the blower to be adjusted manually or remotely via the BMS. Each individual blower system will be operated at a vacuum and flow rate which has been field-calibrated to provide the ROI required for each respective blower system. The BMS will monitor pressure transmitters within each of the systems' process streams to provide operating consistency.

The fifth SSVM system is intended to mitigate the compactor room and the evaporator room, a much smaller area sub slab footprint than the main building. The blower is an in-line fan type vacuum blower. The system components include the following:

- SSVM pit
- Riser pipe
- In-line fan vacuum blower

The compactor/evaporator room system will not have a VFD. It will be running at full capacity for the duration of its use. The BMS will, however, monitor pressure via transmitters within the process stream to provide proper operation. In addition, the air stream will be monitored by a vacuum gauge and an audible/visual vacuum alarm mounted to the wall in the compactor room.

7.3 Design Criteria

The design is conceptual in nature and based upon engineering calculations, pilot test results, and key assumptions. The ROI used as a design basis for the four main vacuum blower systems is based upon the observed and interpolated pilot test results. It is anticipated that the main systems will achieve a radius of influence of 90 feet from each pit with a vacuum of 20 "wc at an approximate flow of 90 scfm.

The pilot test results are included as **Appendix E**.

7.4 System Details – Main System

The initial pit was constructed for the pilot test with the intent of incorporating it into the final system design. The design of the pit is based on EPA/625/R-92/016, June 1994. As the final design calls for a total of four main SSVM pits, three additional pits will be constructed identical to the pilot test pit and in the following fashion: At each pit location, a 4'x4' square will be saw cut out of the concrete floor slab. The underlying material will be excavated to a depth of approximately 19 inches with the material being properly disposed of off-site. A 3" thick non-reinforced concrete support slab will be installed at the bottom of the excavation. Once the concrete has cured, a 3'x3'x1' prefabricated metal box, consisting of a 2"x 2"x1/4" metal frame with 304 stainless steel expanded

metal welded to the frame on all six sides, will be placed upon the concrete support slab. A 4" diameter galvanized steel pipe will penetrate the expanded metal on one side, extending approximately 10" into the center of the prefabricated box. On the exterior of the box, the steel pipe will angle up at 90 degrees to run parallel to the wall where it will be supported by pipe supports every 4' (TYP.). The excavation will be backfilled around the box and riser pipe with crushed aggregate meeting specifications as defined in ASTM C-33-90. A 10-mil vapor barrier will be installed above the metal box and surrounding aggregate backfill. The vapor barrier is to be installed and terminated per manufacturer's instructions. A new 4" thick, reinforced concrete slab, will be poured flush with the existing slab. The riser pipe penetration through the new slab will be sealed with non-voc emitting elastomeric joint sealant. The riser pipe will penetrate the roof where it will be run horizontally to the blower assembly and ultimately the final exhaust stack location. This is a common design for dry soils.

7.5 System Details – Compactor/Evaporator Room System

The pit to be installed in the compactor room will be constructed as follows: A 2' x 2' square will be saw cut out of the concrete slab adjacent to the interior wall of the compactor room as shown in **Figure 11**. The underlying material will be excavated out to a depth of 1' with the material being properly disposed of off-site. A 4" diameter pipe will be secured to the interior wall and terminate just below the bottom of the existing concrete slab. A screen will be installed at the pipe terminate to prevent debris from entering the system. The pit will then be backfilled around the pipe with crushed aggregate meeting specifications as defined in ASTM C-33-90. A 10-mil vapor barrier will be installed above the aggregate backfill. The vapor barrier is to be installed and terminated per manufacturer's instructions. A new 4" thick, reinforced concrete slab will be poured flush with the existing slab. The riser pipe penetration through the new slab will be sealed with non-VOC emitting elastomeric joint sealant. The riser pipe will penetrate the roof where the in-line blower will be installed in a vertical pipe run before being terminated at the final exhaust stack location. Monitoring equipment for this system includes a vacuum gauge and alarm that will be installed on the riser pipe and mounted to the interior wall of the compactor room in plain sight and at a level accessible by building personnel.

7.6 Vacuum Blower Systems

Four (4) 2-HP vacuum blower systems are to be located on the roof near the location of the riser pipe roof penetrations. Once the risers penetrate the roof they will be run horizontally along the roof to the location of the blower assembly. The blower assembly will be fabricated off-site by Gasho. The blower assembly will be housed in a custom steel weatherproof blower enclosure located on the roof, as shown in **Figure 12**. The blower assembly will be mounted to the enclosure and the enclosure mounted to the roof. A rubber vibration pad will be installed between the roof and the blower assembly to reduce noise and vibration created by the blower.

7.7 BMS and VFD Functionality

The vacuum blower systems electric motors will be operated by variable frequency drives (VFD). The operating speeds of the VFDs will be adjusted during start-up so that the blower systems will provide complete coverage of vapor mitigation while operating most efficiently.

As shown on the process and instrumentation diagram (see **Figure 13**), each vacuum blower process stream will be equipped with pressure transmitters. These transmitters will be connected to the BMS. The BMS will be programmed with adjustable set points which will be utilized to indicate if the vacuum blower systems are functioning outside of the field calibrated operation parameters. The BMS will be programmed to provide an alarm to alert facilities management personnel.

8.0 SYSTEM STARTUP

The objectives of the commissioning and start-up phase of an SSVM system are to:

- Confirm that the system has been constructed as designed;
- Check that the equipment operates as specified;
- Facilitate modifications to the system based on observations of site conditions that are different than expected during system installation; and
- Gather and evaluate initial operational data.

This section presents an overall strategy to follow in preparing a Start-Up Plan to carry out an operational readiness evaluation and start-up activities of the system.

8.1 Operational Readiness Evaluation and Testing

The operational readiness evaluation (ORE) and testing process is comprised of three primary activities:

- Pre-commissioning check;
- Functional performance tests of individual components;
- Pre-start-up, functional performance system testing of the combined components.

8.2 Pre-Commissioning Check-Out

The pre-commissioning checkout is an inspection performed in order to verify that all components of the system have been properly installed. A checklist for pre-commissioning activities will be prepared by PWGC based upon the final system design. Any deficiencies must be corrected and re-tested prior to proceeding to the next phase of testing. The pre-commissioning checklist is a working document that determines if an aspect of the system meets requirements (MR), or requires further action (FA). If further action is needed the required repairs or modifications will be performed.

8.3 Equipment Functional Performance Test

The equipment functional performance tests should only commence after all the pre-commissioning checks have been performed successfully. The individual function tests would be performed on components such as the blowers, pressure transmitters, alarms / monitors,

etc. The equipment performance tests will be carried out in a manner to verify that the components operate correctly and within specifications.

8.4 Pre-Startup Functional Performance System Testing

After the pre-commissioning checks and individual component testing have been successfully completed, the testing of the entire system is performed to verify integrity prior to actual operation. Any deficiencies with the system must be corrected and performance checks successfully completed before the system can go into full operation. Tests will be conducted to inspect the system for piping leaks, loose equipment, and verify that the individual components do not interfere with each other.

8.5 System Startup / Full Scale Demonstration

During the start-up phase, the entire system will be put into operation. The strategy for start-up is to conduct these activities sequentially, comparing observations and test data against design and performance criteria. This will allow the system to be brought on line in a systematic and safe manner to meet the operational objectives. The sequence terminates when the design and equipment performance is documented to be in compliance with specifications, and the system is ready for transition into the operations and maintenance phase.

The start-up procedure of the system will proceed slowly with a well-planned sequence of events. Prior to the start of operations, baseline sub-slab pressures will be measured in each of the 11 sub slab monitoring points with a digital manometer. The vacuum blower systems will be brought on-line one at a time and vacuum readings will be taken from all monitoring points. Communication testing will begin with the monitoring points nearest to the perimeter of the building and work inward toward the building interior. Once all of the individual blower systems are operating the system flow rates will be balanced and motor speeds and system vacuums will be optimized to provide full coverage of the slab area. High and low system pressure alarms will be established during this time and programmed into the BMS.

9.0 OPERATION, MONITORING, AND MAINTENANCE

Routine operation, monitoring, and maintenance (OM&M) visits will be conducted to assess the operation of the system. During the initial start-up phase, OM&M visits will be conducted 3 times during the first month. Following the first month, OM&M visits will be on an alternate week basis through the end of the second month of continuous operation and then on an annual schedule for the remainder of the system's operation. OM&M visits will consist of assessing the system's current condition, documenting flow readings, and, when scheduled, collecting indoor air samples for laboratory analysis. System parameters such as flow rates and vacuum pressures will be documented on a system monitoring form. Indoor air samples will be collected on an annual basis and submitted under proper chain of custody to a New York State Department of Health certified laboratory for analysis. The samples will be analyzed by EPA method TO-15 for PCE, TCE, cis-1,2-DCE, and vinyl chloride.

PWGC will periodically review the data to assess the effectiveness of the system. Based upon the sampling results, PWGC may make adjustments to the system to enhance effectiveness or performance. This may include: adjustments to the extraction flow rate and/or vacuum at each blower. **Figure 14** indicates the intended radiuses of influence of each extraction point.

System Operation, Maintenance, and Monitoring (OM&M) progress reports detailing the system performance, will be prepared on an annual basis and submitted to the NYSDEC.

Following the completion of the construction of the SSVM System, a detailed OM&M Manual will be prepared by PWGC. A draft Table of Contents for the OM&M Manual is included as **Appendix G**.

10.0 SYSTEM SHUTDOWN

The system will remain in place and operational until it is no longer needed to address potential exposures related to soil vapor intrusion. This determination will be based upon an evaluation of subsurface sources of residual contamination. The NYSDEC will be notified prior to the system's permanent shutdown.

10.1 System De-activation and Removal

Once the determination has been made that the system may be deactivated, operation will be terminated. It is recommended that the components of the system remain in place. However, if removal of the system is appropriate, the main power to the system will be disconnected and the above-grade equipment will be removed from the building. The remaining system piping will be cut flush with grade and capped.

TABLES

Table 1

Soil Sample Analytical Results

BAE Systems - Building 2

Compound	Unrestricted Use SCO ⁽¹⁾	GP-1 (6-8') 3/18/2011	GP-2 (6-8') 3/18/2011	GP-3 (6-8') 3/18/2011	GP-4 (6-8') 3/18/2011	GP-5 (6-8') 3/18/2011	GP-6 (6-8') 3/22/2011	GP-7 (5-7.5') 3/23/2011	GP-8 (5-7.5') 3/23/2011	GP-9 (5-7.5') 3/23/2011
VOCs by EPA 8260 in µg/kg (ppb)										
cis-1,2-Dichloroethene	250	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U
Tetrachloroethene	1,300	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U
Trichloroethene	470	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	3 U	2.6 U	2.6 U	2.6 U
Vinyl Chloride	20	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	6 U	5.2 U	5.2 U	5.2 U
Compound	Unrestricted Use SCO ⁽¹⁾	GP-10 (5-7.5') 3/23/2011	GP-11 (5-7.5') 3/23/2011	GP-12 (5-7.5') 3/23/2011	SD-1 (5-7.5') 3/23/2011	SD-2 (5-7.5') 3/23/2011	LP-1 (18') 3/30/2011	LP-2 (12') 8/17/2011	LP-3 (12') 8/17/2011	LP-4 (13') 10/6/2011
VOCs by EPA 8260 in µg/kg (ppb)										
cis-1,2-Dichloroethene	250	2.6 U	3.1 U	2.8 U	2.7 U	2.6 U	39	ND U	ND U	ND U
Tetrachloroethene	1,300	2.6 U	3.1 U	6.4	23	2.6 U	840	ND U	ND U	ND U
Trichloroethene	470	2.6 U	3.1 U	2.8 U	2.7 U	2.6 U	680	ND U	ND U	ND U
Vinyl Chloride	20	5.1 U	6.2 U	5.7 U	5.4 U	5.2 U	16 U	ND U	ND U	ND U
Compound	Unrestricted Use SCO ⁽¹⁾	MS-South (4'-6') 7/22/2011	MS-North (4'-6') 7/22/2011	FS (4'-6') 7/22/2011	OT (0'-2') 8/5/2011	MR (3'-4') 8/5/2011	SHE (2'-3') 8/5/2011	TP-1 (5') 8/17/2011	S-1 (2') 10/6/2011	S-2 (4') 10/6/2011
VOCs by EPA 8260 in µg/kg (ppb)										
cis-1,2-Dichloroethene	250	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Tetrachloroethene	1,300	ND U	ND U	ND U	120 U	ND U	11	ND U	190	99
Trichloroethene	470	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Vinyl Chloride	20	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U

Notes:

⁽¹⁾ NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06

U - Indicates concentration not detected above MDL

Bold/highlighted - indicated exceedance of the NYSDEC Cleanup Objective

Table 2
Air and Vapor Analytical Results
BAE Systems - Building 2

Sub-Slab Vapor		SS-Compactor	SS-Repro	SS-Materials	SS-PIF	SS-Paint	SS-FS Facilities Storage	SS-MR Mail Room	SS-SHE SHE Office	SS-OT Oracle Training	SS-MSS Model Shop South	SS-MSN Model Shop North
Compound		3/25/2011					8/9/2011					
VOCs by EPA 8260 in $\mu\text{g}/\text{m}^3$												
cis-1,2-Dichloroethene		ND	837	275	1,580	503	40	93.2	338	383	80.5	131
Tetrachloroethene		9,340	59,700	53,800	15,000	16,200	997	1,460	12,700	8,610	616	6580
Trichloroethene		143	1,490	5,860	4,580	1,010	249	160	548	629	260	537
Vinyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Indoor Air		IA-Compactor Compactor Room	IA-Repro Repro- graphics	IA-Materials Materials Lab	IA-PIF PIF Lab	IA-Paint Paint Room	IA-FS Facilities Storage	IA-MR Mail Room	IA-SHE SHE Office	IA-OT Oracle Training	IA-MSS Model Shop South	IA-MSN Model Shop North
Compound		3/25/2011					8/9/2011					
VOCs by EPA 8260 in $\mu\text{g}/\text{m}^3$												
cis-1,2-Dichloroethene	NG	ND	0.598	1.57	2.03	0.261	5	2.39	2.37	0.967	ND	ND
Tetrachloroethene	100	6.9	73.2	30.3	20.9	25.2	8.27	22.4	21.4	18.4	5.28	8.07
Trichloroethene	5	0.199	0.822	0.494	0.381	0.510	ND	ND	ND	ND	ND	ND
Vinyl Chloride	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Soil Vapor		SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-1 H2M	SV-2 H2M	OA-1 Outdoor Air	OA-1 Outdoor Air	OA Outdoor Air
Compound		3/25/2011					2/16/2011		2/16/2011	3/25/2011	8/9/2011	
VOCs by EPA 8260 in $\mu\text{g}/\text{m}^3$												
cis-1,2-Dichloroethene		219	2,740	95.0	3,770	2,760	18.1	ND	ND	ND	ND	ND
Tetrachloroethene		ND	52,600	1,610	26,600	4,730	385	ND	24.6	ND	1.1	1.45
Trichloroethene		23.8	2,250	95.0	1,630	1,820	36.4	ND	ND	ND	ND	ND
Vinyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

⁽¹⁾ NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Table 3.1. Oct 2006.

NG - No NYSDOH Indoor Air Guidance Value

ND - Analyte not detected

Bold/highlighted - indicated exceedance of the NYSDOH Air Guidance Values

Table 3

Soil Vapor and Indoor Air Matrix Tables

BAE Systems - Building 2

Location SS-Compactor / IA-Compactor					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
			6.9		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	9,340	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		0.199			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250	143	9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above		13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS-Repro / IA-Repro					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
				73.2	
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	59,700	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
			0.822		
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	1,490	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS-Materials / IA-Materials					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
				30.3	
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	53,800	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Table 3

Soil Vapor and Indoor Air Matrix Tables

BAE Systems - Building 2

Indoor air concentration of trichloroethene (TCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
			0.494		
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITGATE	12. MITIGATE
250 and above	5,860	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS-PIF / IA-PIF					
Indoor air concentration of tetrachloroethene (PCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		<3	3 to <30	30 to <100	100 and above
			20.9		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	15,000	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
			0.381		
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITGATE	12. MITIGATE
250 and above	4,580	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS-Paint / IA-Paint					
Indoor air concentration of tetrachloroethene (PCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		<3	3 to <30	30 to <100	100 and above
			25.2		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	16,200	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
			0.51		
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITGATE	12. MITIGATE
250 and above	1,010	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Table 3

Soil Vapor and Indoor Air Matrix Tables

BAE Systems - Building 2

Notes:

Decision Matrices taken from Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, NYSDOH, October 2006. Analytical data used is from samples collected April 26, 2007.

Highlighted column and rows represent columns and rows corresponding to analytical results for given compounds.

Bolded actions represents NYSDOH recommendations based upon comparison of sub-slab and indoor air concentrations.

Recommended Actions

No further action:

Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

Take reasonable and practical actions to identify source(s) and reduce exposures:

The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

Table 3

Soil Vapor and Indoor Air Matrix Tables

BAE Systems - Building 2

Location SS/IA-FS (Facilities Storage)					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
			8.27		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000	997	5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above		9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		ND			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250	249	9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above		13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS/IA-MR (Mail Room)					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
			22.4		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	1,460	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE)($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		ND			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250	160	9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above		13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS/IA-SHE (SHE Office)					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
			21.4		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	12,700	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Table 3

Soil Vapor and Indoor Air Matrix Tables

BAE Systems - Building 2

Indoor air concentration of trichloroethene (TCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		ND			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	548	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS/IA-OT (Oracle Training Room)

Indoor air concentration of tetrachloroethene (PCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		<3	3 to <30	30 to <100	100 and above
			18.4		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	8,610	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		ND			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	629	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Location SS/IA-MSS (Model Shop South)

Indoor air concentration of tetrachloroethene (PCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		<3	3 to <30	30 to <100	100 and above
			5.28		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000	616	5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above		9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

Indoor air concentration of trichloroethene (TCE) (µg/m ³)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m ³)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		ND			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	260	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Table 3

Soil Vapor and Indoor Air Matrix Tables

BAE Systems - Building 2

Location SS/IA-MSN (Model Shop North)					
Indoor air concentration of tetrachloroethene (PCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		<3	3 to <30	30 to <100	100 and above
			8.07		
<100		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to <1,000		5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	6,580	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE
Indoor air concentration of trichloroethene (TCE) ($\mu\text{g}/\text{m}^3$)					
SUB-SLAB VAPOR CONCENTRATION of COMPOUND ($\mu\text{g}/\text{m}^3$)		< 0.25	0.25 to < 1	1 to < 5.0	5.0 and above
		ND			
< 5		1. No further Action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
5 to < 50		5. No further action	6. MONITOR	7. MONITOR	8. MITIGATE
50 to < 250		9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE	12. MITIGATE
250 and above	537	13. MITIGATE	14. MITIGATE	15. MITIGATE	16. MITIGATE

Notes:

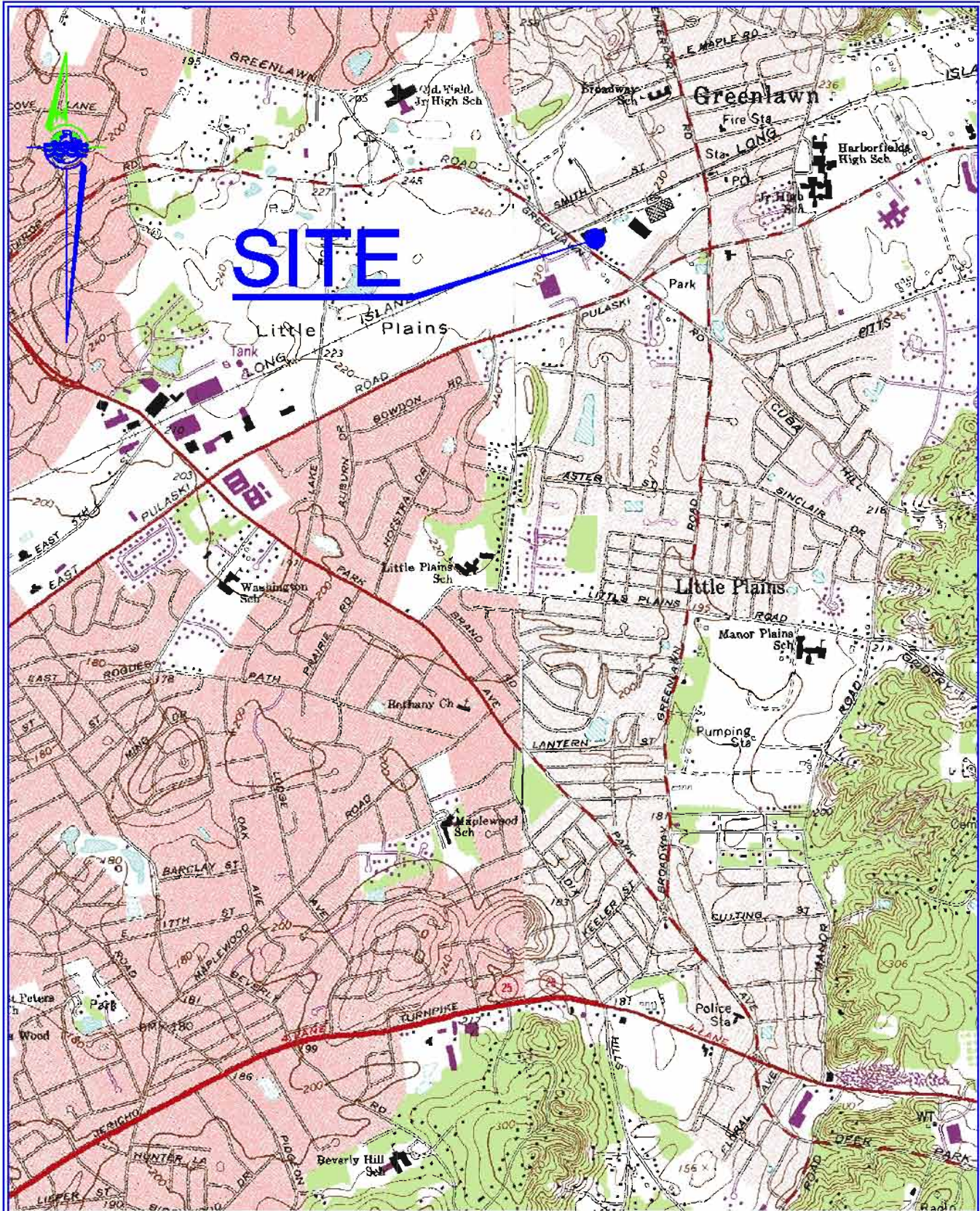
Decision Matrices from *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, NYSDOH, October 2006.

Highlighted column and rows represent columns and rows corresponding to analytical results for given compounds.

Bolded actions represents NYSDOH recommendations based upon comparison of sub-slab and indoor air concentrations.

Recommended Actions

FIGURES



SITE

VICINITY MAP

SCALE: 1:24000

Mapped, edited, and published by the Geological Survey
 Revised in cooperation with New York
 Department of Transportation
 Control by USGS, USCAOS, and New Jersey Geodetic Survey

J:\Projects A-D\BAE - BAE Systems\BAE 0902\cad\Vicinity Map.dwg (8x11V) Sep 28, 2010-10:27am By: guzman

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 P: 851 880-6393 F: 851 880-4735
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**450 E. PULASKI ROAD
 GREENLAWN, NY**

Project: BAE0002	Figure No: 1
Designed by: ROK	
Approved by: PWG	
Drawn by: UG	Date: 10/20/09



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LONG ISLAND RAILROAD

SEE FIGURE 3

BUILDING No. 2

RECHARGE BASIN

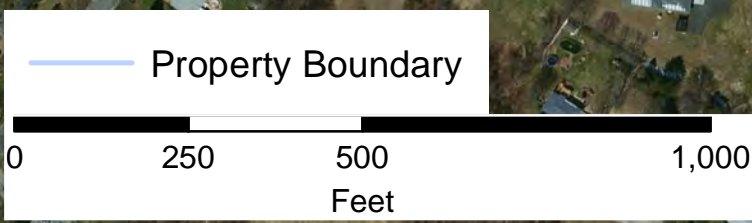
RECHARGE BASIN

BUILDING No. 3

BUILDING NO. 4

BUILDING No. 5

BUILDING No. 1



DATA SOURCE:
ESRI: 2010 BING MAPS

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SHEET TITLE:

**BAE SYSTEMS
BUILDING 2**
**5 CUBA HILL ROAD
GREENLAWN, NY 11740**

FIGURE NO:

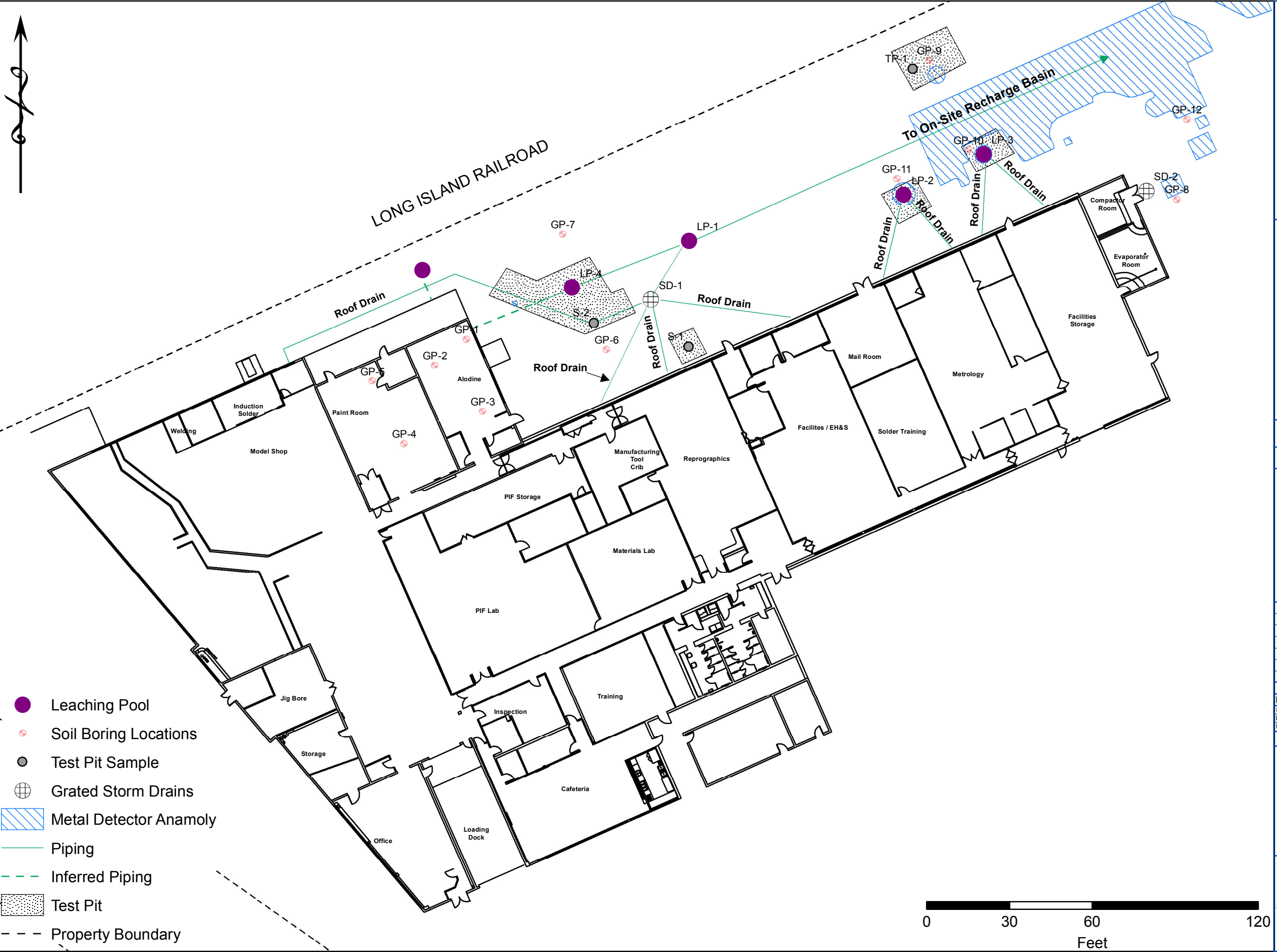
2

SHEET:



LONG ISLAND RAILROAD

To On-Site Recharge Basin



- Leaching Pool
- Soil Boring Locations
- Test Pit Sample
- Grated Storm Drains
- Metal Detector Anomaly
- Piping
- Inferred Piping
- Test Pit
- Property Boundary



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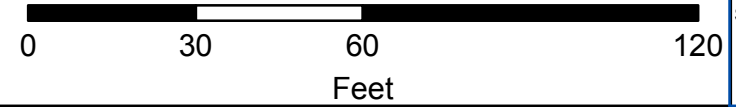
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**BAE SYSTEMS
BUILDING 2**

**SOIL BORINGS AND
TEST PIT LOCATIONS
5 CUBA HILL ROAD
GREENLAWN, NY 11740**

FIGURE NO:
4

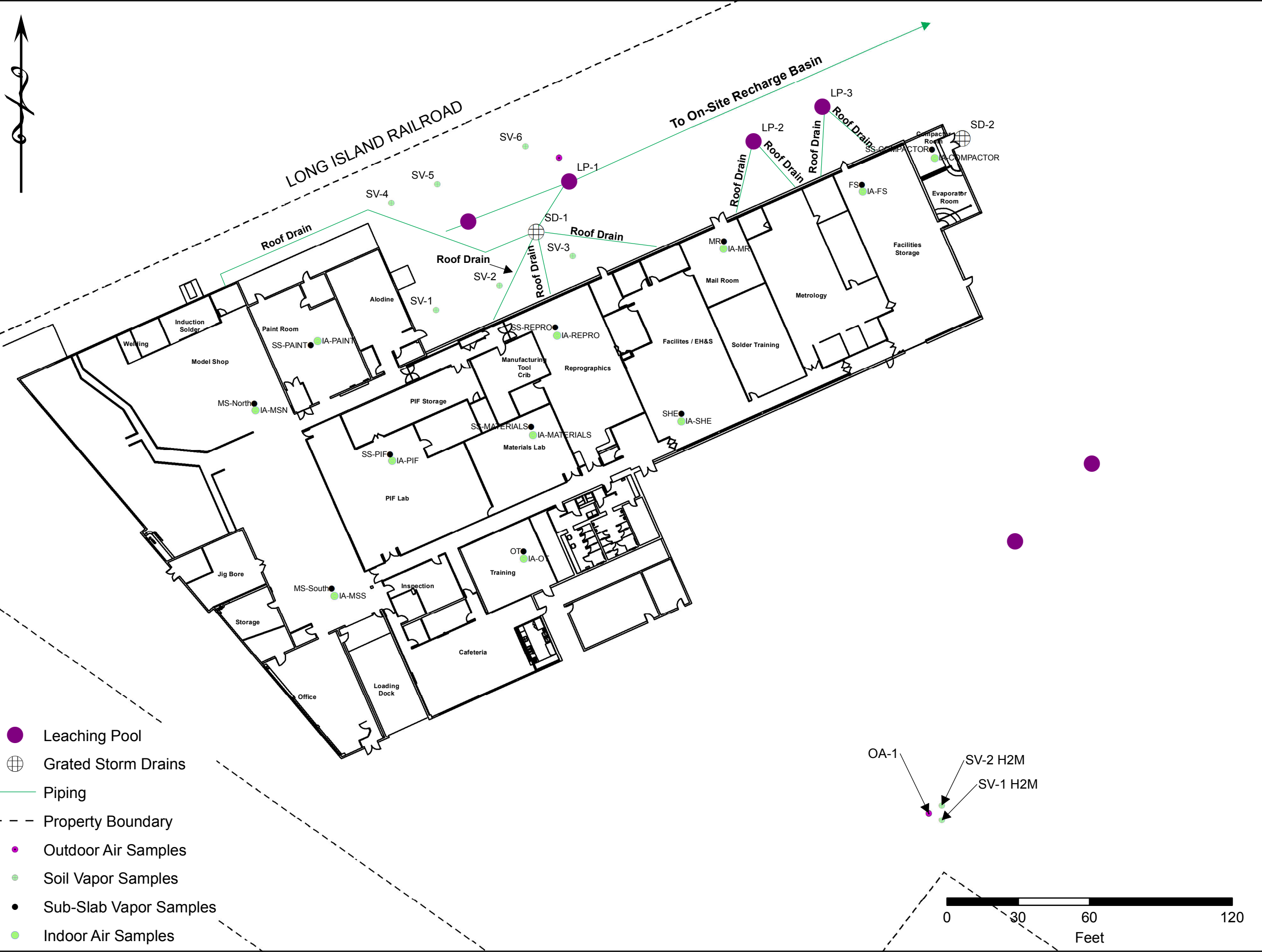
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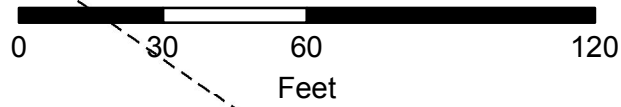
LONG ISLAND RAILROAD

To On-Site Recharge Basin



- Leaching Pool
- ⊕ Grated Storm Drains
- Piping
- Property Boundary
- Outdoor Air Samples
- Soil Vapor Samples
- Sub-Slab Vapor Samples
- Indoor Air Samples

OA-1
SV-2 H2M
SV-1 H2M



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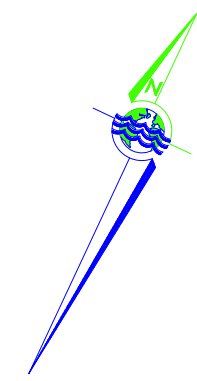
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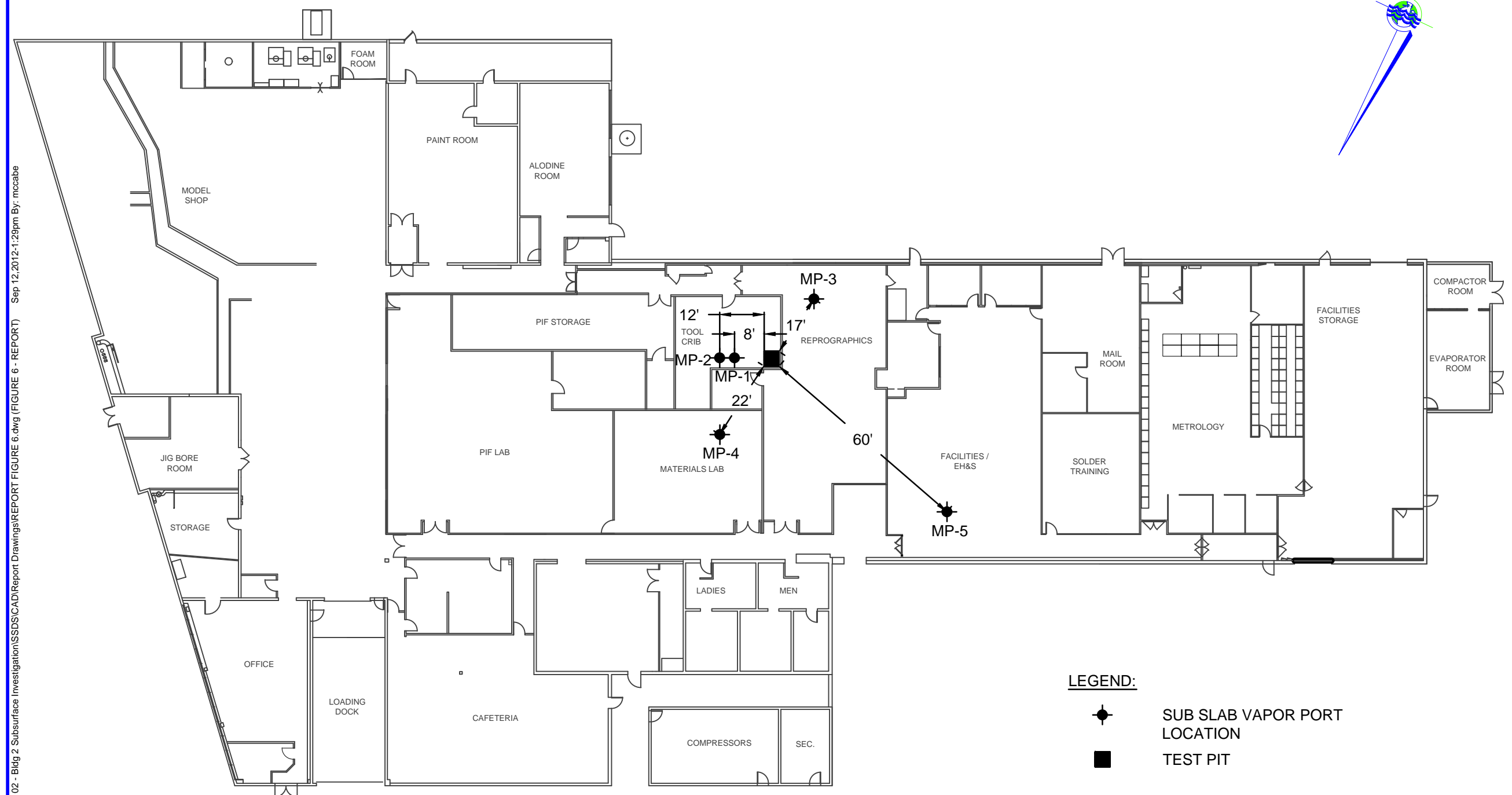
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BAE SYSTEMS BUILDING 2
SOIL VAPOR SAMPLING RESULTS
5 CUBA HILL ROAD
GREENLAWN, NY 11740

FIGURE NO:
5



SHEET:



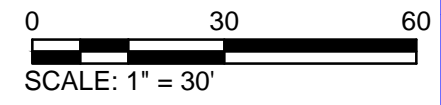
J:\Projects A-D\BAE - BAE Systems\BAE 1102 - Bldg 2 Subsurface Investigation\SSDS\CAD\Report Drawings\REPORT FIGURE 6.dwg (FIGURE 6 - REPORT) Sep 12, 2012 1:29pm By: mccabe



LEGEND:

-  SUB SLAB VAPOR PORT LOCATION
-  TEST PIT

**PILOT TEST
BUILDING 2 FLOOR PLAN**
SCALE: 1" = 30'



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BUILDING 2
5 CUBA HILL ROAD
GREENLAWN, NY 11740**

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**PILOT TEST
FLOOR PLAN**

FIGURE NO **6**

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BUILDING 2
5 CUBA HILL ROAD
GREENLAWN, NY 11740

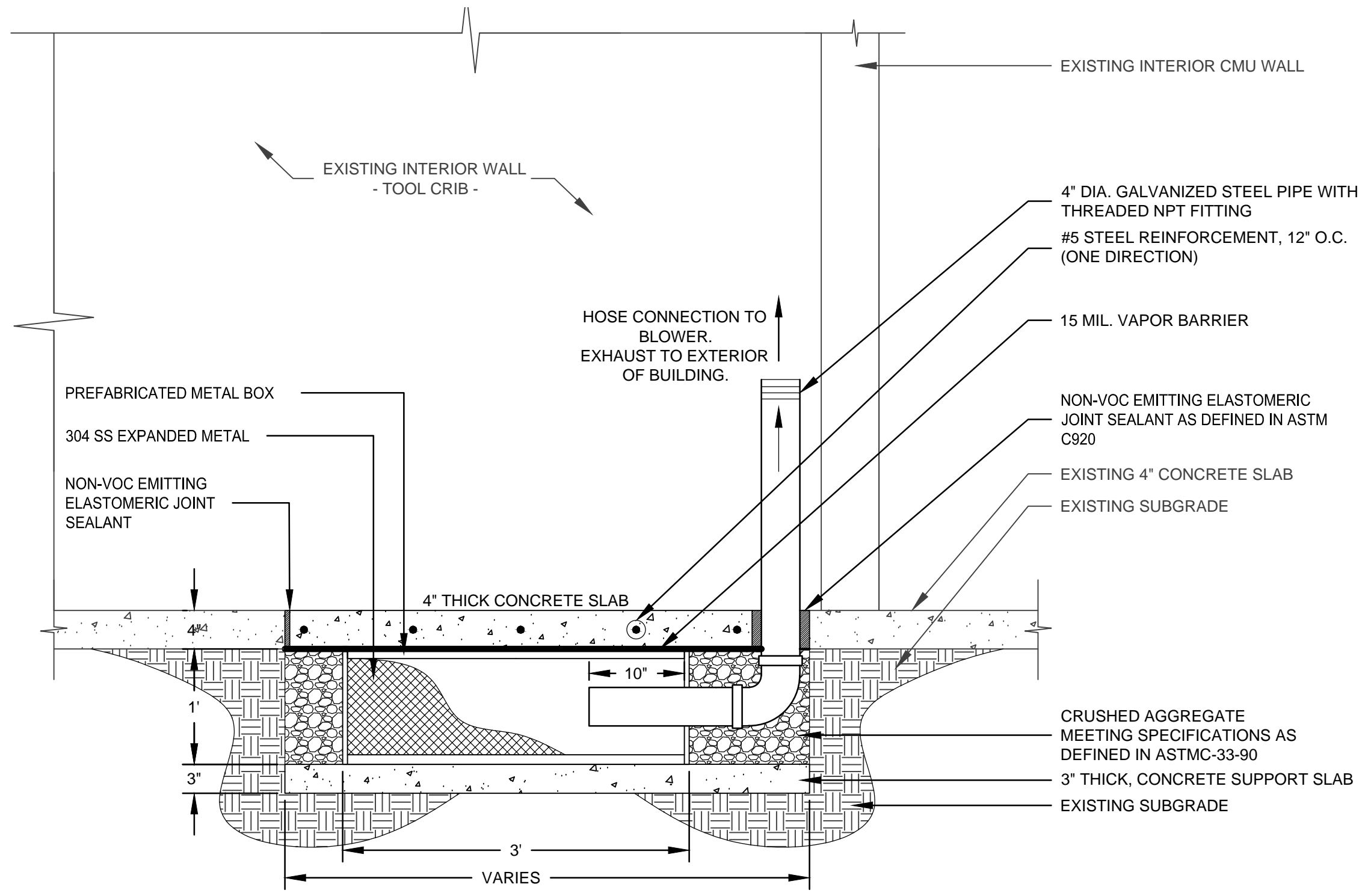
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SHEET TITLE			
FULL SCALE SSVM PIT DETAIL			

FIGURE NO 7

SHEET - OF -



PILOT TEST - SSVM PIT
SCALE: 1" = 1'

I:\Projects A-D\BAE - BAE Systems\BAE 1102 - Bldg 2 Subsurface Investigation\SSVM\CAD\Report Drawings\REPORT FIGURES 7 - 11.dwg (FIGURE 7) Sep 12, 2012 1:24pm By: mccabe

FIGURE 8 - Step Test

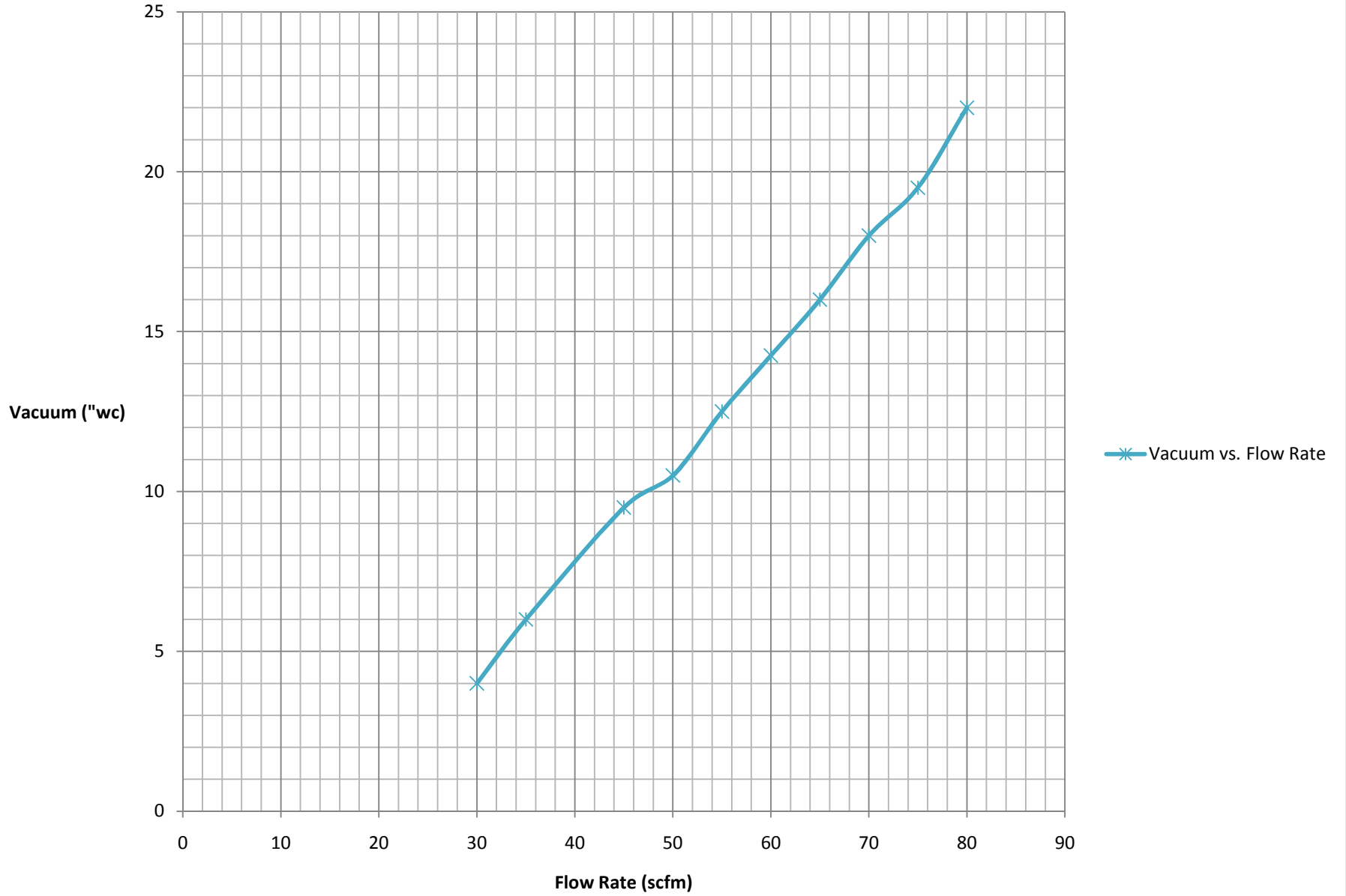
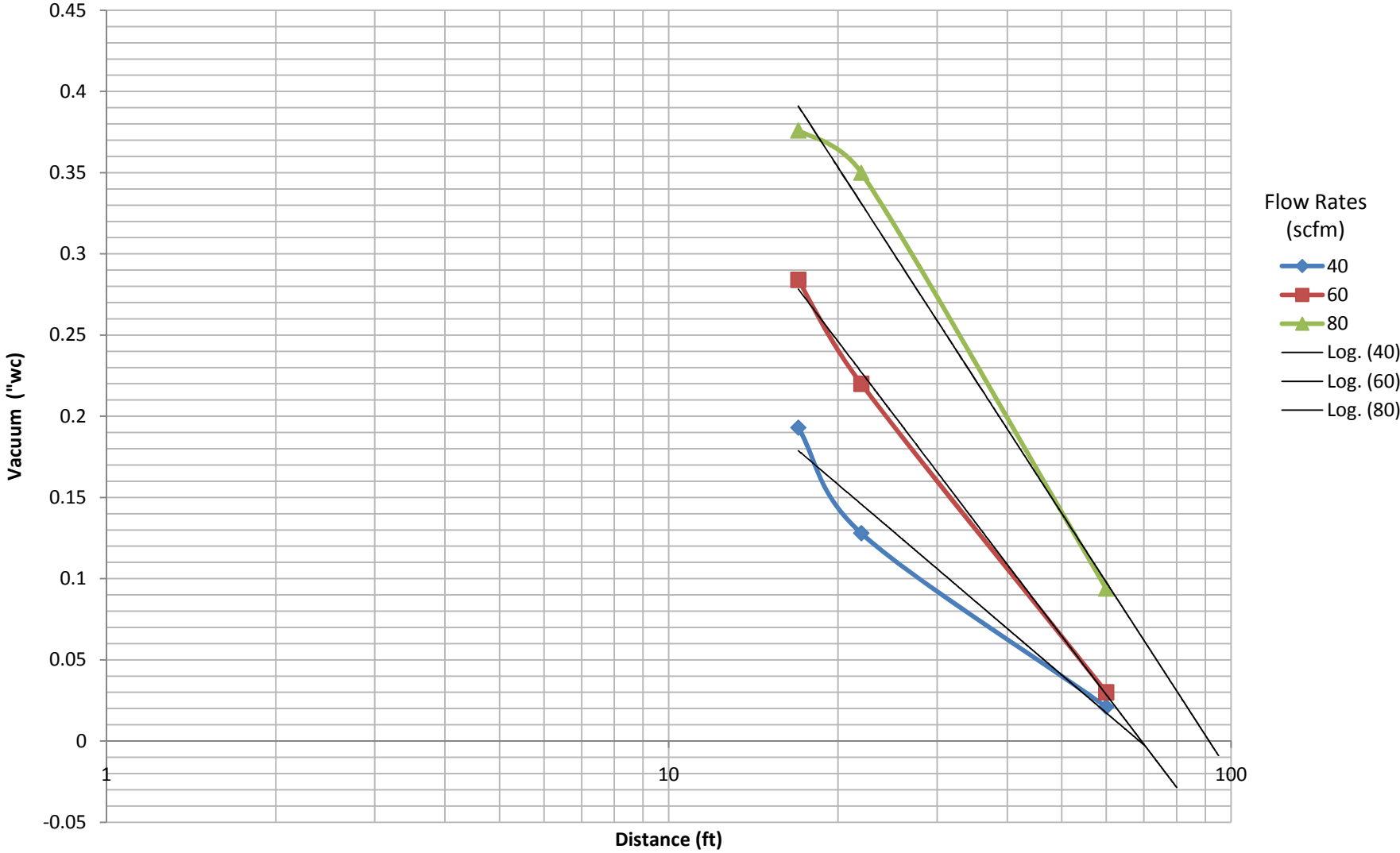
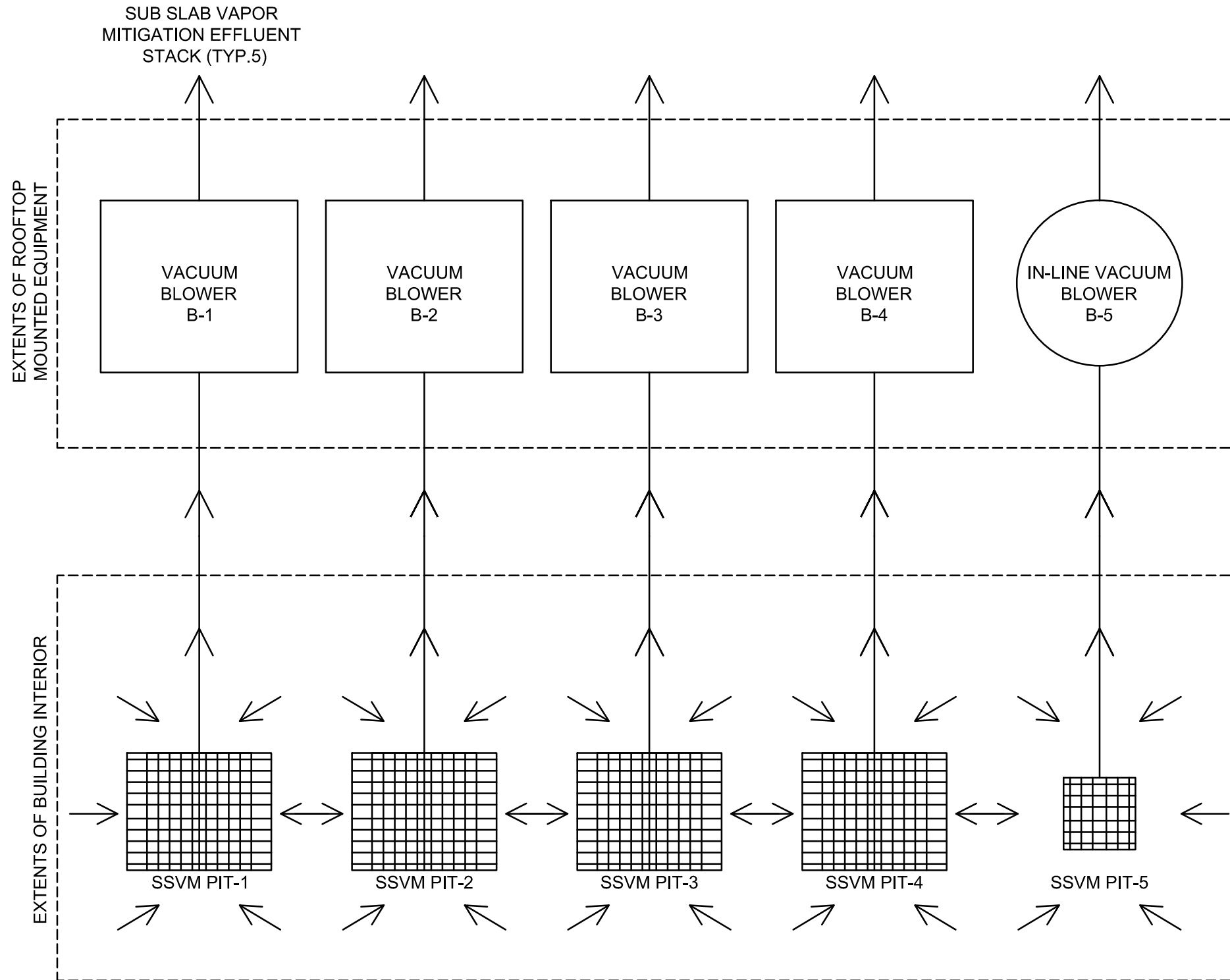


FIGURE 9
Vacuum Response Test
Radius of Influence



Projects A-D\BAE - BAE Systems\BAE 1102 - Bldg 2 Subsurface Investigation\SSDS\CAD\Report Drawings\REPORT FIGURE 10.dwg (FIGURE 10 - REPORT) Sep 12, 2012 1:28pm By: mccabe



PROCESS FLOW DIAGRAM
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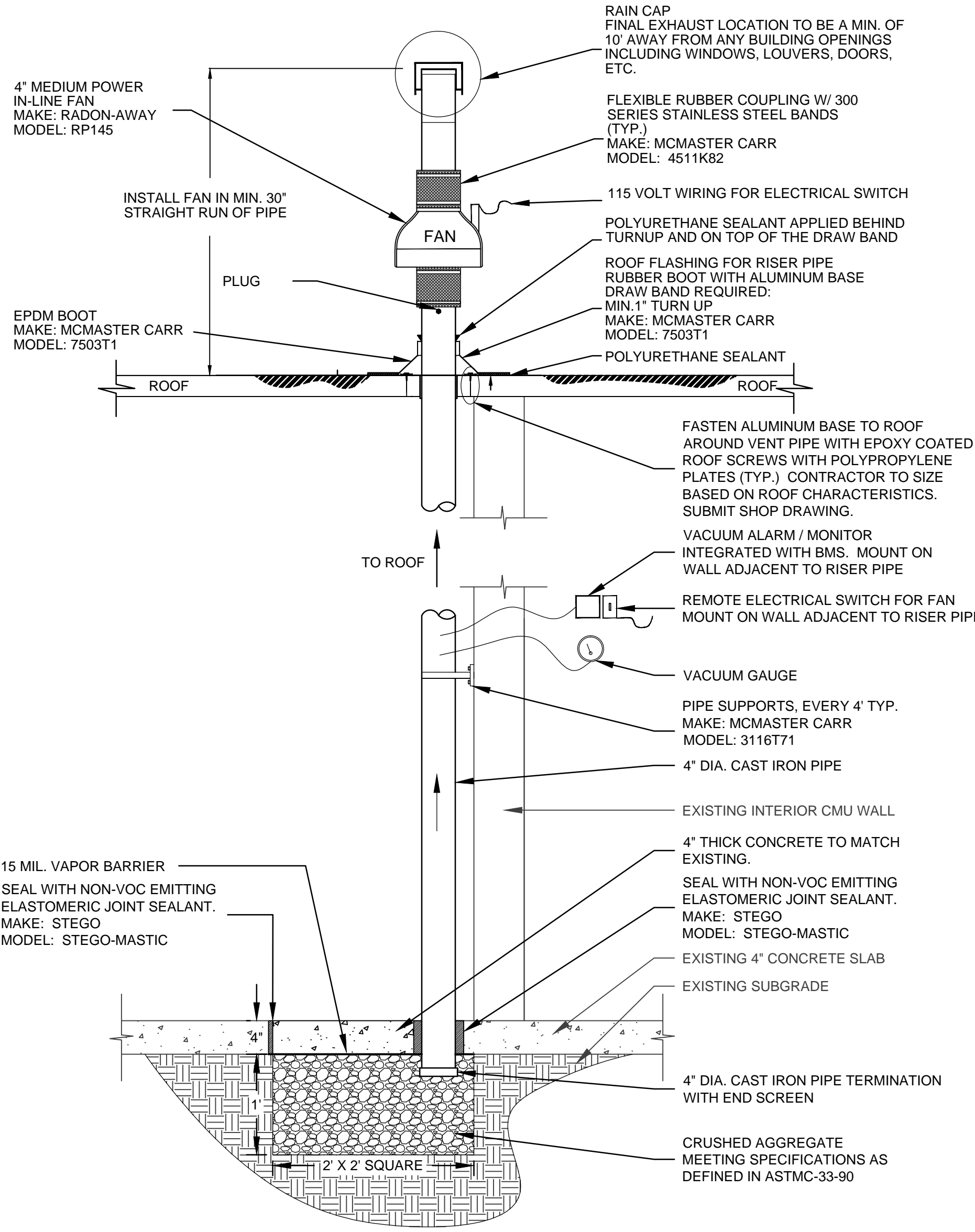
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PROCESS FLOW
DIAGRAM


FIGURE NO 10

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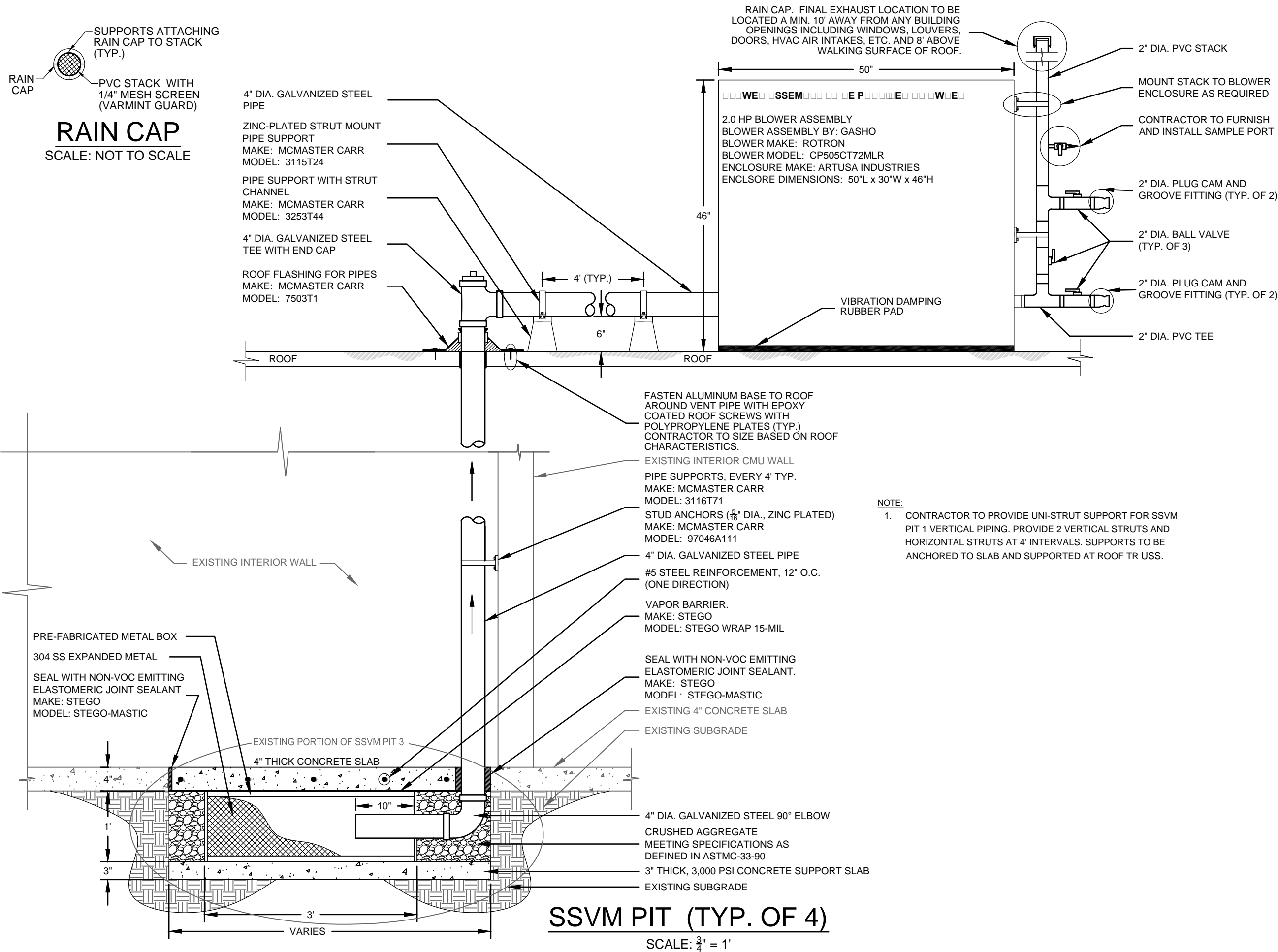


FULL SCALE SSVM PIT (COMPACTOR ROOM)

SCALE: $\frac{3}{4}" = 1'$

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		BAE SYSTEMS BUILDING 2 5 CUBA HILL ROAD GREENLAWN, NY 11740		FULL SCALE COMPACTOR ROOM SSVM PIT DETAIL	
		<small>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING AND RELATED DOCUMENTS IS A VIOLATION OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW</small>		REVISION DATE INITIAL COMMENTS <hr/> DRAWING INFORMATION PROJECT: BAE1102 APPROVED BY: DH DESIGNED BY: DH DATE: 2-22-2012 DRAWN BY: FM SCALE: AS SHOWN	FIGURE NO 11
				SHEET - OF -	

I:\Projects A-D\BAE - Bldg 2 Subsurface Investigation\SSDS\CAD\Report Drawings\REPORT FIGURE 12.dwg (FIGURE 12 - Report) Sep 12, 2012 1:27pm By: mcabae




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BUILDING 2
5 CUBA HILL ROAD
GREENLAWN, NY 11740**

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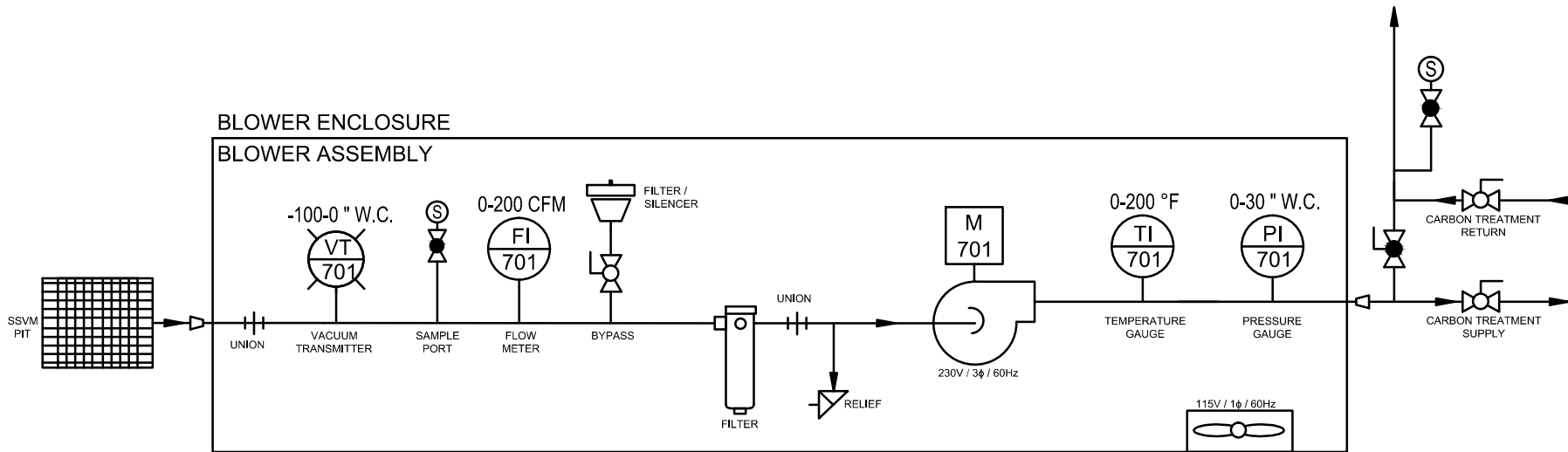
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**SUB SLAB VAPOR MITIGATION
SSVM PIT DETAILS**

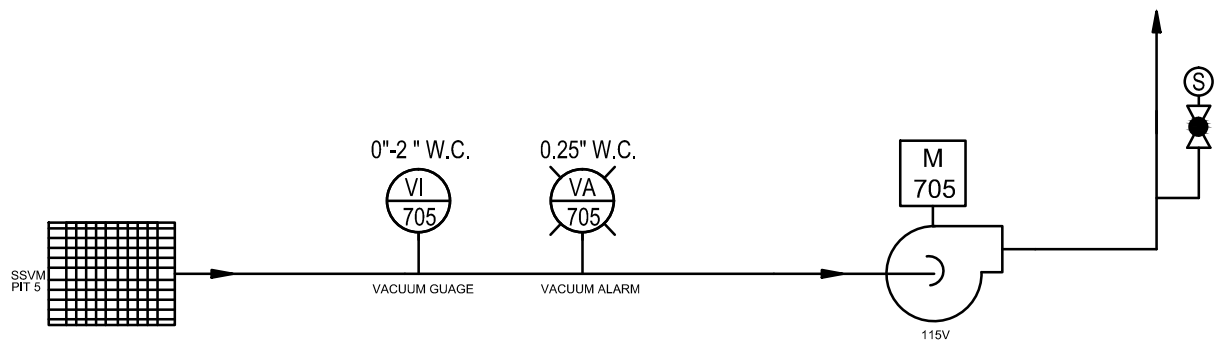
FIGURE NO
12

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P&ID
SSVM SYSTEMS 1-4 (TYP.)
SCALE: NOT TO SCALE



P&ID
SSVM SYSTEM 5
SCALE: NOT TO SCALE

UNIT	RANGE	MANUFACTURER	MODEL
VT701-VT704	-100-0" W.C.	NOSHOK	SERIES 100 - 30V
FI701-FI704	0-200 CFM	DWYER	DS-300
TI701-TI704	0-200 °F	NOSHOK	30-110
PI701-PI704	0-30" W.C.	GASHO	0-30" W.C.
VI705	0-2" W.C.	DWYER	2002-M
VA705	0.25" W.C.	RADON-AWAY	28001-2

GAUGE TABLE

LEGEND	
VALVES AND PIPING	
	NO NC
BALL VALVE	
SAMPLE PORT	
VACUUM RELIEF VALVE	
REDUCER	
UNION	
FILTER / SILENCER	
PARTICULATE FILTER	
VENTILATION FAN	
INSTRUMENT IDENTIFICATION	
INDICATING INSTRUMENT	
INPUT CAUSING ALARM	
EXAMPLE	<ul style="list-style-type: none"> SETPOINT OF INSTRUMENT INSTRUMENT DESIGNATION (PRESSURE SWITCH) INSTRUMENT TYPE SYSTEM POSITION NUMBER
30" W.C. PSH 70	
EQUIPMENT	
CENTRIFUGAL, REGENERATIVE BLOWER	
EQUIPMENT ABBREVIATIONS	
PT - PRESSURE TRANSMITTER	
FI - FLOW INDICATOR	
M - MOTOR	
PI - PRESSURE INDICATOR	
TI - TEMPERATURE INDICATOR	
VI - VACUUM INDICATOR	
VA - VACUUM ALARM	
SYSTEM POSITION DESIGNATION	
700 - SOIL VAPOR MITIGATION SYSTEM	
_____	PROPOSED

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BAE SYSTEMS
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5 CUBA HILL ROAD
GREENLAWN, NY 11740

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DRAWING INFORMATION

PROJECT:	BAE1102	APPROVED BY:	DH
DESIGNED BY:	DH	DATE:	2-9-2012
DRAWN BY:	FM	SCALE:	NOT TO SCALE

SHEET TITLE

PROCESS &
INSTRUMENTATION
DIAGRAM

FIGURE NO 13

SHEET - OF -



PWGC

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING ENGINEER AND HYDROGEOLOGIST, P.C.

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CONSULTANTS

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DRAWINGS PREPARED FOR

**BAE SYSTEMS
BUILDING 2
5 CUBA HILL ROAD
GREENLAWN, NY 11740**

REVISION DATE INITIAL COMMENTS

DRAWING INFORMATION

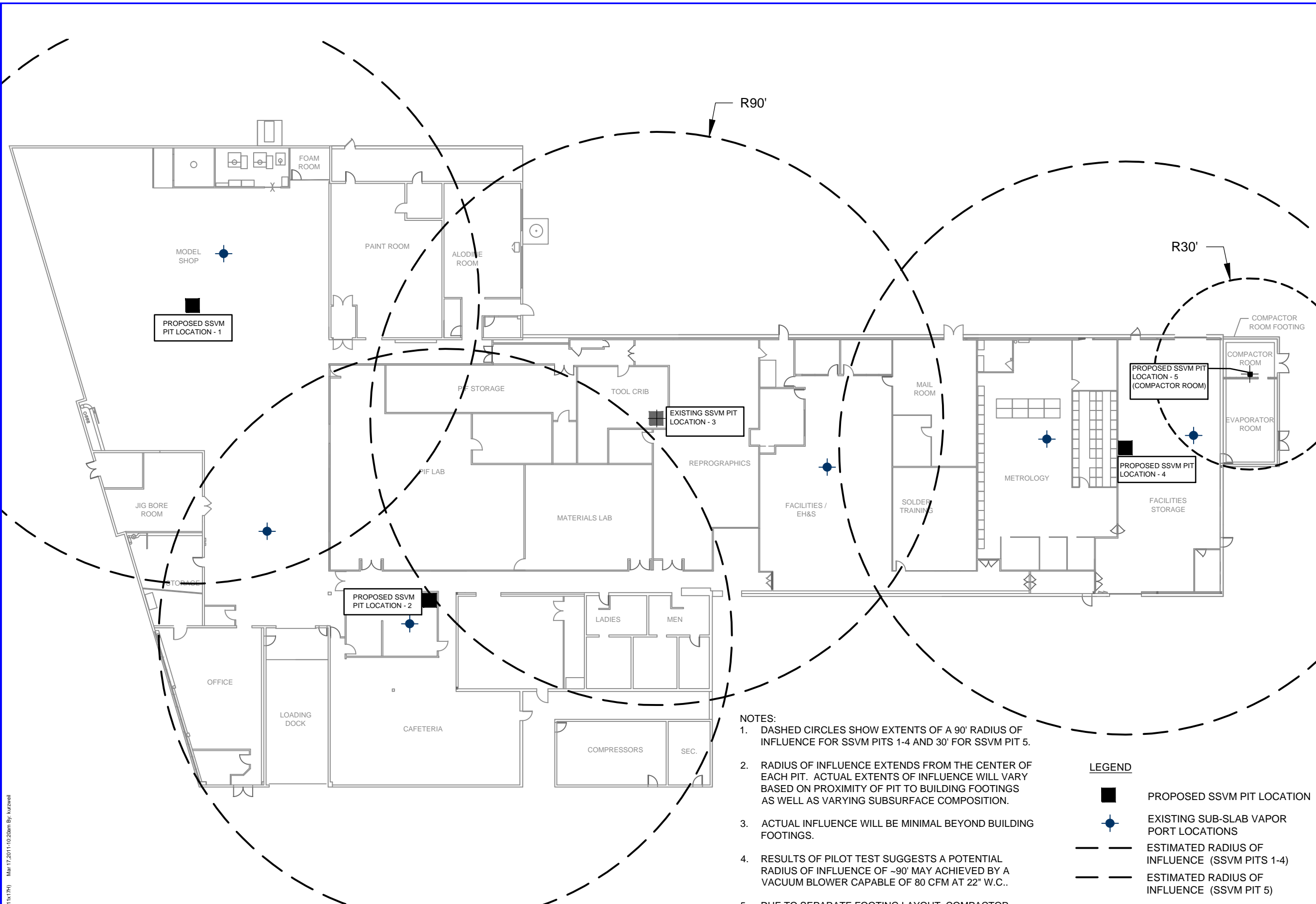
PROJECT:	BAE1102	APPROVED BY:	DH
DESIGNED BY:	DH	DATE:	6-11-2012
DRAWN BY:	FM	SCALE:	AS SHOWN

SHEET TITLE

ESTIMATED SSVM RADIUS OF INFLUENCE

FIGURE NO
14

SHEET - OF -



FLOOR PLAN

SCALE: 1" = 30'

NOTES:

1. DASHED CIRCLES SHOW EXTENTS OF A 90' RADIUS OF INFLUENCE FOR SSVM PITS 1-4 AND 30' FOR SSVM PIT 5.
2. RADIUS OF INFLUENCE EXTENDS FROM THE CENTER OF EACH PIT. ACTUAL EXTENTS OF INFLUENCE WILL VARY BASED ON PROXIMITY OF PIT TO BUILDING FOOTINGS AS WELL AS VARYING SUBSURFACE COMPOSITION.
3. ACTUAL INFLUENCE WILL BE MINIMAL BEYOND BUILDING FOOTINGS.
4. RESULTS OF PILOT TEST SUGGESTS A POTENTIAL RADIUS OF INFLUENCE OF ~90' MAY ACHIEVED BY A VACUUM BLOWER CAPABLE OF 80 CFM AT 22" W.C..
5. DUE TO SEPARATE FOOTING LAYOUT, COMPACTOR ROOM WILL HAVE A SMALL VACUUM FAN INSTALLED TO ADDRESS VAPOR MITIGATION IN THE COMPACTOR ROOM ONLY.

LEGEND

- PROPOSED SSVM PIT LOCATION
- EXISTING SUB-SLAB VAPOR PORT LOCATIONS
- ESTIMATED RADIUS OF INFLUENCE (SSVM PITS 1-4)
- ESTIMATED RADIUS OF INFLUENCE (SSVM PIT 5)

J:\Projects\Site Plan.dwg (11x17) Mar 17, 2011 10:20am By: karzvel

APPENDIX A



GPR

MAGNETICS

ELECTROMAGNETICS

SEISMICS

RESISTIVITY

UTILITY LOCATION

UXO DETECTION

BOREHOLE CAMERA

STAFF SUPPORT

March 25, 2011

Mr. John Eichler

P.W. Grosser Consulting, Inc.

630 Johnson Avenue, Suite 7

Bohemia, NY 11716-2618

Dear Mr. Eichler:

This letter summarizes the results of the geophysical investigation conducted by NAEVA Geophysics, Inc. on March 18, 2011, at the BAE Systems facility located at the intersection of Pulaski Road and Cuba Hill Road in Greenlawn, New York. The purpose of the investigation was to identify subsurface utilities and features that may be a source or provide a pathway for contamination, such as underground storage tanks (USTs), dry wells and sewer systems, and to assist in the safe placement of six proposed exploratory boring sites (PEBSs). The area of investigation was an approximately 20,000 ft² "L"-shaped portion of the facility parking lot located north and east of Building #2 (see Figure 1).

The equipment selected for this investigation included a Geonics EM-61 high-sensitivity electromagnetic metal-detector (used as the primary investigative instrument), a Fisher TW-6 Pipe and Cable Locator (a type of hand-held electromagnetic metal-detector used to further define EM-61 anomalies), a Subsite 950 utility locator, a Dynatel 2250 Pipe and Cable Locator, and a Malå RAMAC/Ground Penetrating Radar (GPR) system with a 250-Megahertz (MHz) antenna.

Several metal-detector anomalies were identified in the area of investigation. Two large, irregular shaped anomalies were delineated in the asphalt parking lot and a grassy area northeast of the building. GPR data collected over these anomalies were inconclusive, however, due to the size and shape of the anomalies and the response from the TW-6 metal-detector, NAEVA suspects these to be a result of reinforced concrete. An additional six circular metal-detector anomalies of varying sizes were identified in the area. Further investigations with GPR did not provide any additional information on the sources of these anomalies, mainly due to the poor signal penetration of the GPR (less than two feet below grade in places). The circular shape of these anomalies suggests they may represent buried dry wells, manholes, or vaults. However, it should be noted they could represent buried metallic debris. Four rectangular metal-detector anomalies were identified in the asphalt parking lot near the northeast corner of the building. Further investigations with GPR did not provide any additional information, although a BAE Systems employee suggested the southern two anomalies may be the locations of USTs that were closed in place and filled with sand. The BAE Systems employee claimed the USTs were relatively deep, maybe as deep as 20 feet, which is beyond the detection range of the metal-

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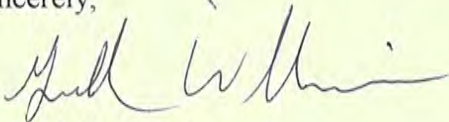
detectors. The anomalies may represent just the access points of the USTs, and thus are much smaller than the actual size of the USTs. Further investigations on the smaller rectangular anomalies did not provide any additional information on their source. Two linear metal-detector anomalies were also identified near the northeast corner of the building (pink lines labeled “em” on Figure 1). Further investigations with the utility locators and GPR did not provide any additional information on their source.

Several subsurface utilities were identified in the area of investigation. Two electric lines were identified heading east from conduits located on the northeast corner of the building toward the metal containers and storage area. Another electric line was marked heading southeast from an aboveground generator toward conduits located along the north wall of the building. Six sewer lines were identified exiting a catch basin located in the western portion of the area of investigation. Five sewer lines headed toward different portions of the building and the sixth line headed northeast to a sewer manhole. Another sewer line exited to the east of the manhole and headed across the area of investigation toward a recharge basin located to the east. Four unknown suspected utilities were identified in the area of investigation. Three unknown lines were marked exiting a suspected gas valve and possible UST. One line headed northeast toward the generator and the other two lines headed south toward the building. A fourth unknown line was identified heading north-south near the asphalt-gravel boundary in the western portion of the area of investigation.

All detected utilities were marked on the ground with spray paint using the color code established by the American Public Works Association (green for sewer, red for electric). Metal-detector anomalies and conduits of unknown use were marked using pink spray paint. The locations of the six PEBSs were moved as necessary to avoid any detected subsurface utility or feature. All detected subsurface utilities and features are indicated on the attached figure. NAEVA recommends that you exercise caution when drilling and/or excavating in the vicinity of any detected and marked out features.

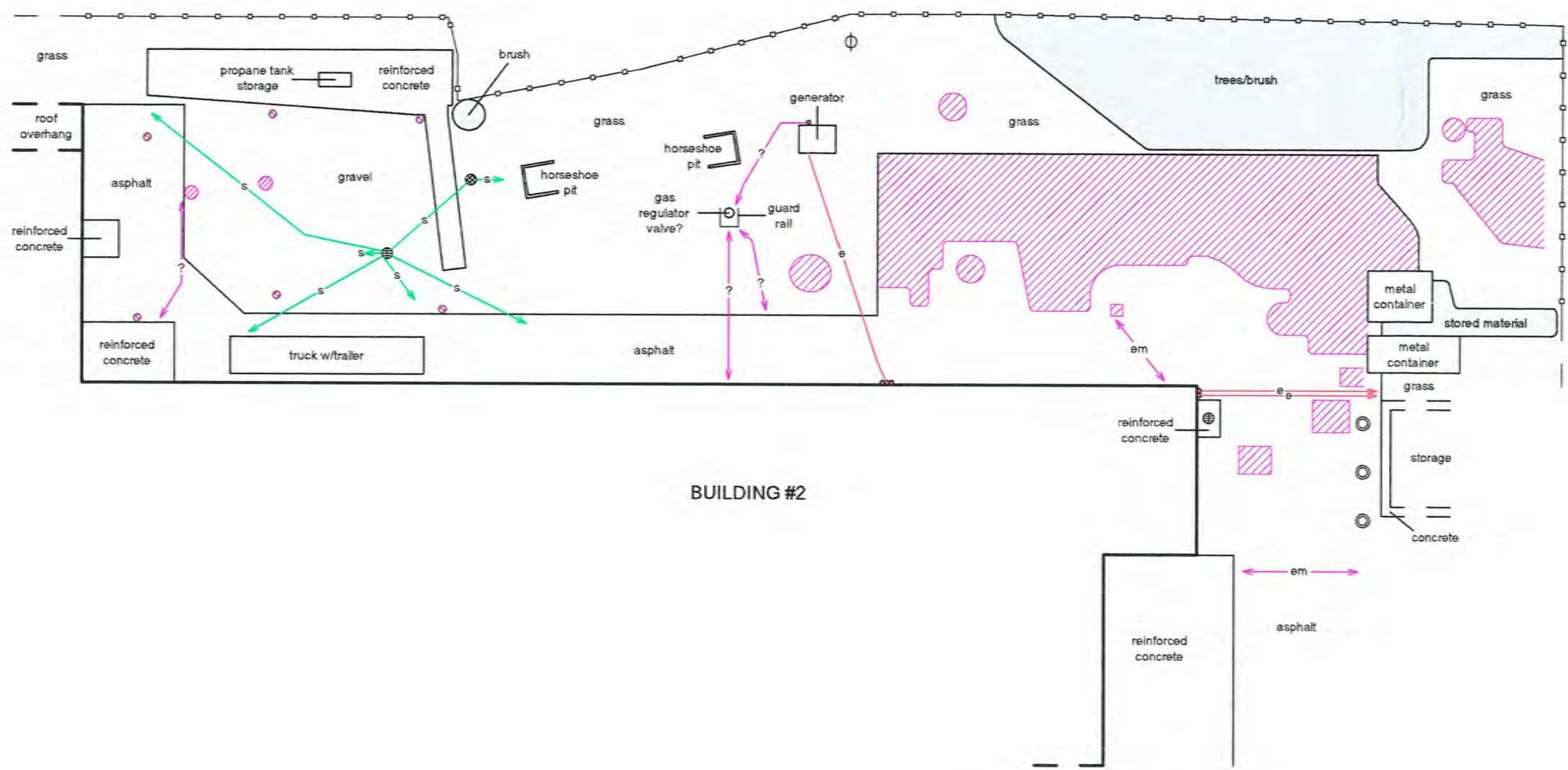
Thank you for the opportunity to work with you on this project. We look forward to providing subsurface locating services for you in the future.

Sincerely,

A handwritten signature in black ink, appearing to read "Gerald Williamson". The signature is fluid and cursive, with a large initial "G" and "W".

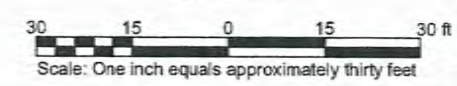
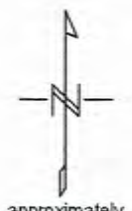
Gerald Williamson
Geologist - Project Manager
NAEVA Geophysics, Inc.

Attachment: Figure 1



LEGEND

- e — electric line
- s — sewer line
- ? — unknown line
- em — linear electromagnetic metal-detector anomaly
- chain-link fence
- metal-detector anomaly
- ⊕ proposed exploratory boring site
- electrical conduit
- unknown conduit
- catch basin
- manhole cover
- bollard
- utility pole



NAEVA GEOPHYSICS, INC.
THE LEADER IN GROUND TRUTH DETECTION
 Subsurface Geophysical Surveys

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Figure 1. Results of Geophysical Investigation
 BAE Systems Facility Building #2
 Located at the Intersection of Pulaski Road and Cuba Hill Road
 Greenlawn, New York

Client	PW Grosser	Date of Work	March 18, 2011
Project No.	C1103181X	Map By	Alec Kurowski

ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP

APPENDIX B

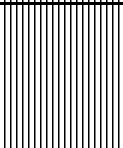
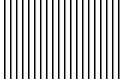
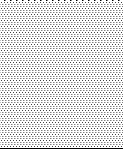
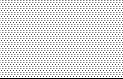


Boring Designation:		GP-1		Logged By:		DNE	
Boring Location:		BAE Systems - Building 2		Project Manager:		JE	
Project Name:		BAE		Project Number:		BAE1101	
Drilling Contractor:		Associated Environmental		Drilling Method:		Direct Push	
Driller Name:		Tom / John		Sampling Method:		Macro Core	
Borehole Diameter:		2.5"		Borehole Depth:		8'	
Start Time:		11:00		Completion Time:		11:25	
Start Date:		3/18/2011		Completion Date:		3/18/2011	
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	4	2.5		Medium-fine sand, trace silt, gravel, brown (10YR4/3), dry	SW	PID - 1.7 ppm	
				Medium-fine sand, trace silt, gravel, very pale brown (10YR7/4), dry	SW	PID - 1.1 ppm	
4	8	2.5		Medium-fine sand, trace silt, gravel, brown (10YR4/3), dry	SW	PID - 1.5 ppm	
				Medium-fine sand, trace silt, gravel, very pale brown (10YR7/4), dry	SW	PID - 0.7 ppm	
8				E.O.B. @ 8'			



Boring Designation:		GP-2		Logged By:		DNE		
Boring Location:		BAE Systems - Building 2		Project Manager:		JE		
Project Name:		BAE		Project Number:		BAE1101		
Drilling Contractor:		Associated Environmental		Drilling Method:		Direct Push		
Driller Name:		Tom / John		Sampling Method:		Macro Core		
Borehole Diameter:		2.5"		Borehole Depth:		8'		
Start Time:		13:55		Completion Time:		14:20		
Start Date:		3/18/2011		Completion Date:		3/18/2011		
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes		
0	4	2.5		Medium-fine sand, trace silt, gravel, brown (10YR4/3), dry	SW	PID - 1.4 ppm		
							PID - 1.1 ppm	
4	8	3.0				SW	PID - 1.2 ppm	
							PID - 0.6 ppm	
8				E.O.B. @ 8'				



Boring Designation:		GP-3		Logged By:		DNE	
Boring Location:		BAE Systems - Building 2		Project Manager:		JE	
Project Name:		BAE		Project Number:		BAE1101	
Drilling Contractor:		Associated Environmental		Drilling Method:		Direct Push	
Driller Name:		Tom / John		Sampling Method:		Macro Core	
Borehole Diameter:		2.5"		Borehole Depth:		8'	
Start Time:		9:50		Completion Time:		10:25	
Start Date:		3/18/2011		Completion Date:		3/18/2011	
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	4	3.0		Fine sand, silt, trace gravel, brown (10YR4/3), dry	SM	PID - 2.4 ppm	
				Fine sand, silt, some gravel, brown (10YR4/3), dry	SM	PID - 2.2 ppm	
4	8	3.0		Medium-fine sand, trace silt, gravel, very pale brown (10YR7/4), dry	SW	PID - 0.8 ppm	
						PID - 0.5 ppm	
8				E.O.B. @ 8'			



Boring Designation:		GP-4		Logged By:		DNE		
Boring Location:		BAE Systems - Building 2		Project Manager:		JE		
Project Name:		BAE		Project Number:		BAE1101		
Drilling Contractor:		Associated Environmental		Drilling Method:		Direct Push		
Driller Name:		Tom / John		Sampling Method:		Macro Core		
Borehole Diameter:		2.5"		Borehole Depth:		8'		
Start Time:		13:20		Completion Time:		13:40		
Start Date:		3/18/2011		Completion Date:		3/18/2011		
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes		
0	4	3.0		Medium-fine sand, some silt, some gravel, very pale brown (10YR7/4), dry	SW	PID - 0.6 ppm		
				Medium-fine sand, trace silt, gravel, very pale brown (10YR7/4), dry	SW	PID - 0.3 ppm		
4	8	3.5					PID - 0.4 ppm	
							PID - 0.2 ppm	
8					E.O.B. @ 8'			



Boring Designation:		GP-5		Logged By:		DNE	
Boring Location:		BAE Systems - Building 2		Project Manager:		JE	
Project Name:		BAE		Project Number:		BAE1101	
Drilling Contractor:		Associated Environmental		Drilling Method:		Direct Push	
Driller Name:		Tom / John		Sampling Method:		Macro Core	
Borehole Diameter:		2.5"		Borehole Depth:		8'	
Start Time:		12:15		Completion Time:		13:00	
Start Date:		3/18/2011		Completion Date:		3/18/2011	
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	4	2.5		Medium-fine sand, trace silt, some gravel, very pale brown (10YR7/4), dry	SW	PID - 1.0 ppm	
				Medium-fine sand, trace silt, gravel, very pale brown (10YR7/4), dry	SW	PID - 0.8 ppm	
4	8	3.0				PID - 0.6 ppm	
						PID - 0.5 ppm	
8					E.O.B. @ 8'		



Boring Designation:		GP-6		Logged By:		JE	
Boring Location:		BAE Systems - Building 2		Project Manager:		JE	
Project Name:		BAE		Project Number:		BAE1101	
Drilling Contractor:		Associated Environmental		Drilling Method:		Direct Push	
Driller Name:		Tom / John		Sampling Method:		Macro Core	
Borehole Diameter:		2.5"		Borehole Depth:		20'	
Start Time:		13:55		Completion Time:		15:25	
Start Date:		3/22/2011		Completion Date:		3/22/2011	
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	4	3.0		0-2" Gravel with dark brown, wet fine sand. 2"-1'	GM	PID - 0.0 ppm	
				Moist brown clay. 1'-4' dry light brown medium-fine sand. Some pebbles. No odor.	CL	PID=0.0 ppm	
					SW	PID=0.0 ppm	
4	8	3.0		dry, light brown fine-coarse sand. Some pebbles. No odor.	SW	PID=0.0 ppm	
						PID=0.0 ppm	
8	12	3.0		dry, light brown, medium-coarse sand. Little pebbles. No odor.	SW	PID=0.0 ppm	
				Dry, beige, medium-coarse sand. Little pebbles. No odor.	SW	PID=0.0 ppm	
12	16	3.0		Dry, beige, medium-coarse sand. Some pebbles. No odor.	SW	PID=0.0 ppm	
16	20	2.5		Dry, beige, medium-coarse sand. Little pebbles. No odor.	SW	PID=0.0 ppm	
20				E.O.B. @ 20'			



Boring Designation:	GP-7	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	8:20	Completion Time:	8:45
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes
0	5	3.0		0-2" Gravel with dark brown, wet fine sand. 2"-1' wet brown clay. 1'-2.5' wet, light brown, medium-coarse sand. Some pebbles. No odor. 2.5'-5' Dry, medium-fine, light brown sand. Little pebbles. No odor.	GM	PID - 0.0 ppm
				CL	PID=0.0 ppm	
				SW	PID=0.0 ppm	
5	10	3.0		Dry, fine-coarse, beige sand and pebbles. No odor.	SW	PID=0.0 ppm
				Dry, medium-coarse, beige sand and pebbles. No odor.	SW	PID=0.0 ppm
10	15	3.0		Dry, medium-coarse, beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
				Dry, medium-coarse, beige sand. Little pebbles. No odor.	SW	PID=0.0 ppm
15	20	3.0		Dry, medium-coarse, beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
20				E.O.B. @ 20'		



Boring Designation:	GP-8	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	10:55	Completion Time:	11:30
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	5	2.5		2" asphalt, then dry light brown medium-fine sand. Some pebbles. No odor.	SW	PID - 0.0 ppm	
				Dry, medium-coarse black sand. Some pebbles. No odor.	SW	PID=0.0 ppm	
5	10	2.0		Dry, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm	
10	15	3.0		Dry, medium-coarse, beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm	
15	20	3.5					
20					E.O.B. @ 20'		



Boring Designation:	GP-9	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	11:36	Completion Time:	12:00
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes
0	5	3.5		Grass then Wet brown clay. Little pebbles. No odor.	CL	PID - 0.0 ppm
				Dry, medium-fine light brown sand. Some pebbles. No odor.	SW	PID=0.0 ppm
5	10	5.0		Dry, medium-fine beige sand and pebbles. No odor.	SW	PID=0.0 ppm
				Dry, medium-coarse, beige sand and pebbles. No odor.	SW	PID=0.0 ppm
10	15	4.5				
15	20	4.0				
20				E.O.B. @ 20'		



Boring Designation:	GP-10	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	12:10	Completion Time:	12:35
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	5	1.0		Asphalt then dry medium-coarse brown sand and pebbles. No odor.	SW	PID - 0.0 ppm	
				Dry, medium-coarse brown sand and pebbles. No odor.	SW	PID=0.0 ppm	
5	10	2.5		Dry, medium-coarse beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm	
10	15	3.0		Dry, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm	
15	20	4.0					
20					E.O.B. @ 20'		



Boring Designation:	GP-11	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	12:55	Completion Time:	13:30
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes	
0	5	1.0		0-4" pebbles then wet, medium fine light brown sand. Some pebbles. No odor.	SW	PID - 0.0 ppm	
				Wet, medium-fine light brown sand. Some pebbles. No odor.	SW	PID=0.0 ppm	
5	10	2.0				SW	PID=0.0 ppm
10	15	3.0			Moist, medium-coarse beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
					Dry, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm
15	20	4.0			Moist, medium-coarse beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
20				E.O.B. @ 20'			



Boring Designation:	GP-12	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	13:45	Completion Time:	14:10
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes
0	5	2.0		Asphalt then dry light brown clay. Trace pebbles. No odor.	CL	PID - 0.0 ppm
				Dry, medium-coarse light brown sand. Some pebbles. No odor.	SW	PID=0.0 ppm
5	10	1.5		Dry, medium-fine brown sand. Some pebbles. No odor.	SW	PID=0.0 ppm
				Dry, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm
10	15	3.0		Dry, medium-coarse, beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
				Dry, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm
15	20	4.0		Dry, medium-coarse, beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
20				E.O.B. @ 20'		



Boring Designation:	SD-1	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	25'
Start Time:	8:50	Completion Time:	9:10
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes
				Base of storm drain is 4' below ground surface.		
4	10	3.0		Wet, dark grey gravel with medium-coarse dark grey sand. No odor.	GM	PID=0.0 ppm
				Moist, red and brown medium-coarse sand. Some pebbles. No odor.	SW	PID=0.0 ppm
				Moist, beige and red medium-coarse sand. Some pebbles. No odor.		
10	15	4.0		Moist, medium-coarse beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
				Moist, medium-fine beige sand. Little pebbles. No odor.	SW	PID=0.0 ppm
15	20	4.0		Moist, medium-coarse beige sand. Some pebbles. No odor.	SW	PID=0.0 ppm
				Moist, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm
20	25					
25				E.O.B. @ 20'		



Boring Designation:	SD-2	Logged By:	JE
Boring Location:	BAE Systems - Building 2	Project Manager:	JE
Project Name:	BAE	Project Number:	BAE1101
Drilling Contractor:	Associated Environmental	Drilling Method:	Direct Push
Driller Name:	Tom / John	Sampling Method:	Macro Core
Borehole Diameter:	2.5"	Borehole Depth:	20'
Start Time:	10:10	Completion Time:	10:50
Start Date:	3/23/2011	Completion Date:	3/23/2011

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	Soil Description	USCS Code	Notes
				Base of storm drain is 3' below ground surface.		
3	5	1.0		Wet, brown clay. No odor.	CL	PID=0.0 ppm
5	10	4.0		Moist, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm
10	15	1.0		Dry, medium-coarse beige sand. Little pebbles. No odor.	SW	PID=0.0 ppm
15	20	3.0		Dry, medium-coarse beige sand and pebbles. No odor.	SW	PID=0.0 ppm
				Dry, medium-coarse beige sand. Little pebbles. No odor.	SW	PID=0.0 ppm
20				E.O.B. @ 20'		

APPENDIX C



ANALYTICAL REPORT

Lab Number:	L1103890
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE-BUILDING 2
Project Number:	BAE 1101
Report Date:	03/29/11

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

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



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1103890-01	GP-1 (6'-8')	GREENLAWN, NY	03/18/11 11:25
L1103890-02	GP-2 (6'-8')	GREENLAWN, NY	03/18/11 14:20
L1103890-03	GP-3 (6'-8')	GREENLAWN, NY	03/18/11 10:25
L1103890-04	GP-4 (6'-8')	GREENLAWN, NY	03/18/11 13:40
L1103890-05	GP-5 (6'-8')	GREENLAWN, NY	03/18/11 13:00
L1103890-06	GP-6 (6'-8')	GREENLAWN, NY	03/22/11 13:55
L1103890-07	GP-7 (5'-7.5')	GREENLAWN, NY	03/23/11 08:20
L1103890-08	GP-8 (5'-7.5')	GREENLAWN, NY	03/23/11 11:28
L1103890-09	GP-9 (5'-7.5')	GREENLAWN, NY	03/23/11 12:04
L1103890-10	GP-10 (5'-7.5')	GREENLAWN, NY	03/23/11 12:40
L1103890-11	GP-11 (5'-7.5')	GREENLAWN, NY	03/23/11 13:30
L1103890-12	GP-12 (5'-7.5')	GREENLAWN, NY	03/23/11 14:10
L1103890-13	DUP-01	GREENLAWN, NY	03/23/11 00:00
L1103890-14	TRIP BLANK	GREENLAWN, NY	03/18/11 00:00
L1103890-15	SD-1 (5'-7.5')	GREENLAWN, NY	03/23/11 08:50
L1103890-16	SD-2 (5'-7.5')	GREENLAWN, NY	03/23/11 10:10

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Case Narrative

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

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

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


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

Sample Receipt

A Trip Blank was listed on the Chain of Custody, but not received in the laboratory.

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

Authorized Signature:

 Elizabeth Simmons

Title: Technical Director/Representative

Date: 03/29/11

ORGANICS

VOLATILES

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-01
 Client ID: GP-1 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 08:13
 Analyst: CF
 Percent Solids: 97%

Date Collected: 03/18/11 11:25
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-02
 Client ID: GP-2 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 08:48
 Analyst: CF
 Percent Solids: 96%

Date Collected: 03/18/11 14:20
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-03
 Client ID: GP-3 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 09:56
 Analyst: CF
 Percent Solids: 97%

Date Collected: 03/18/11 10:25
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-04
Client ID: GP-4 (6'-8')
Sample Location: GREENLAWN, NY
Matrix: Soil
Analytical Method: 1,8260B
Analytical Date: 03/25/11 10:31
Analyst: CF
Percent Solids: 96%

Date Collected: 03/18/11 13:40
Date Received: 03/24/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-05
Client ID: GP-5 (6'-8')
Sample Location: GREENLAWN, NY
Matrix: Soil
Analytical Method: 1,8260B
Analytical Date: 03/25/11 11:06
Analyst: CF
Percent Solids: 97%

Date Collected: 03/18/11 13:00
Date Received: 03/24/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-06
 Client ID: GP-6 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 11:40
 Analyst: CF
 Percent Solids: 84%

Date Collected: 03/22/11 13:55
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	3.0	--	1
Vinyl chloride	ND		ug/kg	6.0	--	1
Trichloroethene	ND		ug/kg	3.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	3.0	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	3.0	--	1
Vinyl chloride	ND		ug/kg	6.0	--	1
Trichloroethene	ND		ug/kg	3.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	3.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-07
 Client ID: GP-7 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 12:15
 Analyst: CF
 Percent Solids: 97%

Date Collected: 03/23/11 08:20
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-08
 Client ID: GP-8 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 12:50
 Analyst: CF
 Percent Solids: 96%

Date Collected: 03/23/11 11:28
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-09
 Client ID: GP-9 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 13:24
 Analyst: CF
 Percent Solids: 97%

Date Collected: 03/23/11 12:04
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-10
 Client ID: GP-10 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 13:59
 Analyst: CF
 Percent Solids: 98%

Date Collected: 03/23/11 12:40
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.1	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-11
 Client ID: GP-11 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 14:34
 Analyst: CF
 Percent Solids: 81%

Date Collected: 03/23/11 13:30
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	3.1	--	1
Vinyl chloride	ND		ug/kg	6.2	--	1
Trichloroethene	ND		ug/kg	3.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	3.1	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	3.1	--	1
Vinyl chloride	ND		ug/kg	6.2	--	1
Trichloroethene	ND		ug/kg	3.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	3.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-12
 Client ID: GP-12 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 15:08
 Analyst: CF
 Percent Solids: 88%

Date Collected: 03/23/11 14:10
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	6.4		ug/kg	2.8	--	1
Vinyl chloride	ND		ug/kg	5.7	--	1
Trichloroethene	ND		ug/kg	2.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	6.4		ug/kg	2.8	--	1
Vinyl chloride	ND		ug/kg	5.7	--	1
Trichloroethene	ND		ug/kg	2.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-13
 Client ID: DUP-01
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 16:52
 Analyst: CF
 Percent Solids: 97%

Date Collected: 03/23/11 00:00
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-15
 Client ID: SD-1 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/25/11 17:26
 Analyst: CF
 Percent Solids: 93%

Date Collected: 03/23/11 08:50
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	23		ug/kg	2.7	--	1
Vinyl chloride	ND		ug/kg	5.4	--	1
Trichloroethene	ND		ug/kg	2.7	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	--	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	23		ug/kg	2.7	--	1
Vinyl chloride	ND		ug/kg	5.4	--	1
Trichloroethene	ND		ug/kg	2.7	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-16
 Client ID: SD-2 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 03/26/11 08:06
 Analyst: CF
 Percent Solids: 96%

Date Collected: 03/23/11 10:10
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	5.2	--	1
Trichloroethene	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 03/26/11 06:23
 Analyst: CF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 16 Batch: WG460432-3					
Tetrachloroethene	ND		ug/kg	2.5	--
Vinyl chloride	ND		ug/kg	5.0	--
Trichloroethene	ND		ug/kg	2.5	--
cis-1,2-Dichloroethene	ND		ug/kg	2.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/25/11 07:27
Analyst: CF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-13,15 Batch: WG460433-3					
Methylene chloride	ND		ug/kg	25	--
1,1-Dichloroethane	ND		ug/kg	3.8	--
Chloroform	ND		ug/kg	3.8	--
Carbon tetrachloride	ND		ug/kg	2.5	--
1,2-Dichloropropane	ND		ug/kg	8.8	--
Dibromochloromethane	ND		ug/kg	2.5	--
1,1,2-Trichloroethane	ND		ug/kg	3.8	--
Tetrachloroethene	ND		ug/kg	2.5	--
Chlorobenzene	ND		ug/kg	2.5	--
Trichlorofluoromethane	ND		ug/kg	12	--
1,2-Dichloroethane	ND		ug/kg	2.5	--
1,1,1-Trichloroethane	ND		ug/kg	2.5	--
Bromodichloromethane	ND		ug/kg	2.5	--
trans-1,3-Dichloropropene	ND		ug/kg	2.5	--
cis-1,3-Dichloropropene	ND		ug/kg	2.5	--
1,1-Dichloropropene	ND		ug/kg	12	--
Bromoform	ND		ug/kg	10	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5	--
Benzene	ND		ug/kg	2.5	--
Toluene	ND		ug/kg	3.8	--
Ethylbenzene	ND		ug/kg	2.5	--
Chloromethane	ND		ug/kg	12	--
Bromomethane	ND		ug/kg	5.0	--
Vinyl chloride	ND		ug/kg	5.0	--
Chloroethane	ND		ug/kg	5.0	--
1,1-Dichloroethene	ND		ug/kg	2.5	--
trans-1,2-Dichloroethene	ND		ug/kg	3.8	--
Trichloroethene	ND		ug/kg	2.5	--
1,2-Dichlorobenzene	ND		ug/kg	12	--
1,3-Dichlorobenzene	ND		ug/kg	12	--
1,4-Dichlorobenzene	ND		ug/kg	12	--

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/25/11 07:27
Analyst: CF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-13,15 Batch: WG460433-3					
Methyl tert butyl ether	ND		ug/kg	5.0	--
p/m-Xylene	ND		ug/kg	5.0	--
o-Xylene	ND		ug/kg	5.0	--
cis-1,2-Dichloroethene	ND		ug/kg	2.5	--
Dibromomethane	ND		ug/kg	25	--
Styrene	ND		ug/kg	5.0	--
Dichlorodifluoromethane	ND		ug/kg	25	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	25	--
2-Butanone	ND		ug/kg	25	--
Vinyl acetate	ND		ug/kg	25	--
4-Methyl-2-pentanone	ND		ug/kg	25	--
1,2,3-Trichloropropane	ND		ug/kg	25	--
2-Hexanone	ND		ug/kg	25	--
Bromochloromethane	ND		ug/kg	12	--
2,2-Dichloropropane	ND		ug/kg	12	--
1,2-Dibromoethane	ND		ug/kg	10	--
1,3-Dichloropropane	ND		ug/kg	12	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5	--
Bromobenzene	ND		ug/kg	12	--
n-Butylbenzene	ND		ug/kg	2.5	--
sec-Butylbenzene	ND		ug/kg	2.5	--
tert-Butylbenzene	ND		ug/kg	12	--
o-Chlorotoluene	ND		ug/kg	12	--
p-Chlorotoluene	ND		ug/kg	12	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	--
Hexachlorobutadiene	ND		ug/kg	12	--
Isopropylbenzene	ND		ug/kg	2.5	--
p-Isopropyltoluene	ND		ug/kg	2.5	--
Naphthalene	ND		ug/kg	12	--
Acrylonitrile	ND		ug/kg	25	--

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 03/25/11 07:27
 Analyst: CF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-13,15 Batch: WG460433-3					
n-Propylbenzene	ND		ug/kg	2.5	--
1,2,3-Trichlorobenzene	ND		ug/kg	12	--
1,2,4-Trichlorobenzene	ND		ug/kg	12	--
1,3,5-Trimethylbenzene	ND		ug/kg	12	--
1,2,4-Trimethylbenzene	ND		ug/kg	12	--
Tetrahydrofuran	ND		ug/kg	50	--
Ethyl ether	ND		ug/kg	12	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	12	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1101

Lab Number: L1103890

Report Date: 03/29/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 16 Batch: WG460432-1 WG460432-2								
Chlorobenzene	97		99		60-133	2		30
Benzene	100		102		66-142	2		30
Toluene	90		92		59-139	2		30
1,1-Dichloroethene	97		98		59-172	1		30
Trichloroethene	102		105		62-137	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	109		106		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	107		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13,15 Batch: WG460433-1 WG460433-2								
Chlorobenzene	99		99		60-133	0		30
Benzene	101		102		66-142	1		30
Toluene	93		94		59-139	1		30
1,1-Dichloroethene	98		99		59-172	1		30
Trichloroethene	101		102		62-137	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	110		105		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	106		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-13,15 QC Batch ID: WG460433-4 WG460433-5 QC Sample: L1103890-12												
Client ID: GP-12 (5'-7.5')												
Chlorobenzene	ND	56.8	41	72		54	94		60-133	26		30
Benzene	ND	56.8	52	91		56	99		66-142	9		30
Toluene	ND	56.8	44	77		50	88		59-139	12		30
1,1-Dichloroethene	ND	56.8	54	96		54	95		59-172	1		30
Trichloroethene	ND	56.8	75	133		65	115		62-137	15		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	117		109		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	103		103		70-130
Toluene-d8	102		100		70-130

INORGANICS & MISCELLANEOUS

Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-01
 Client ID: GP-1 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/18/11 11:25
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-02
 Client ID: GP-2 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/18/11 14:20
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-03
 Client ID: GP-3 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/18/11 10:25
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2**Lab Number:** L1103890**Project Number:** BAE 1101**Report Date:** 03/29/11**SAMPLE RESULTS**

Lab ID: L1103890-04
 Client ID: GP-4 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/18/11 13:40
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-05
 Client ID: GP-5 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/18/11 13:00
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-06
 Client ID: GP-6 (6'-8')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/22/11 13:55
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-07
 Client ID: GP-7 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 08:20
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-08
 Client ID: GP-8 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 11:28
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-09
 Client ID: GP-9 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 12:04
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-10
 Client ID: GP-10 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 12:40
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-11
 Client ID: GP-11 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 13:30
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-12
 Client ID: GP-12 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 14:10
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-13
 Client ID: DUP-01
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 00:00
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-15
 Client ID: SD-1 (5'-7.5')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/23/11 08:50
 Date Received: 03/24/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

SAMPLE RESULTS

Lab ID: L1103890-16
Client ID: SD-2 (5'-7.5')
Sample Location: GREENLAWN, NY
Matrix: Soil

Date Collected: 03/23/11 10:10
Date Received: 03/24/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96		%	0.10	NA	1	-	03/25/11 13:42	30,2540G	MF



Lab Duplicate Analysis
Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1101

Lab Number: L1103890

Report Date: 03/29/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13,15-16 QC Batch ID: WG460275-1 QC Sample: L1103893-06 Client ID: DUP Sample						
Solids, Total	56	51	%	9		20

Project Name: BAE-BUILDING 2

Lab Number: L1103890

Project Number: BAE 1101

Report Date: 03/29/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1103890-01A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-02A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-03A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-04A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-05A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-06A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-07A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-08A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-09A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-10A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-11A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-12A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-12B	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-12C	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-13A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-15A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)
L1103890-16A	Vial Large unpreserved	A	N/A	3.1	Y	Absent	TS(7),NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

Data Qualifiers

the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

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

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

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1103890
Report Date: 03/29/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised February 23, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LCHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

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

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

Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Drinking Water (Organic Parameters: EPA 524.2)

Non-Potable Water (Inorganic Parameters: EPA 1312. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B)

3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Code Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Mass Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

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

Department of Health Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

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

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

Analyses Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EP** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EP** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EP** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EP** 4-Chloroaniline. **EP** for Ammonia in a Soil matrix.



CHAIN OF CUSTODY

PAGE 1 OF 2

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

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

Client Information

Client: **PW Grosser Consulting**
 Address: **630 Johnson Ave., Ste. 7**
Bohemia, NY 11716
 Phone: **(631) 589-6353**
 Fax: **(631) 589-8705**

Email: **John.E@PWGrosser.com**

These samples have been previously analyzed by Alpha

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

ASP-B Protocol

Project Information

Project Name: **BAE - Building 2**
 Project Location: **Greenlawn, NY**

Project #: **BAE 1101**
 Project Manager: **John Erchler**
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: **3/31/11** Time:

Date Rec'd in Lab:

3/24/11

ALPHA Job #:

L110389D

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program Criteria **ASP(B)**

MA MCP PRESUMPTIVE CERTAINTY ... CT REASONABLE CONFIDENCE PROTO

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

Billing Information

Same as Client info PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Container Type Preservative	Date/Time	Date/Time
		Date	Time					
03890-1	GP-1 (6'-8')	3/18/11	1125	S	TE	A	3/24/11 1100	3/24/11 1533
2	GP-2 (6'-8')		1420			A		
3	GP-3 (6'-8')		1025			A		
4	GP-4 (6'-8')		1340			A		
5	GP-5 (6'-8')		1300			A		
6	GP-6 (6'-8')	3/22/11	1355			A		
7	GP-7 (5'-7.5')	3/23/11	0820			A		
8	GP-8 (5'-7.5')		1128			A		
9	GP-9 (5'-7.5')		1204			A		
10	GP-10 (5'-7.5')		1240			A		

ANALYSIS
 ACE, TCE, cis-1,2-DCE
 vinyl chloride

SAMPLE HANDLING

Filtration _____
 Done
 Not needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

Sample Specific Comments

Holding Time **X**

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: **PWG** Date/Time: **3/24/11 1100**
 Received By: **[Signature]** Date/Time: **3/24/11 1533**

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



CHAIN OF CUSTODY

PAGE 2 OF 2

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

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

Client Information

Client: PW Grosser Consulting
Address: 630 Johnson Ave, Ste 4
Baberming, NY 11716
Phone: (631) 589-6353
Fax: (631) 589-8705
Email: JohnE@PWGrosser.com

Project Name: BAE - Building 2
Project Location: Greenlawn, NY
Project #: BAE 1101
Project Manager: John Eichler
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: 3/31/11 Time:

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)
ASP-B Protocol

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
<u>D3690.11</u>	<u>CP-11 (5'-7.5')</u>	<u>3/23/11</u>	<u>1330</u>	<u>S</u>	<u>JE</u>
	<u>12 CP-12 (5'-7.5')</u>		<u>1410</u>		
	<u>12/1B CP-12 (5'-7.5') MS</u>		<u>1410</u>		
	<u>12/14 CP-12 (5'-7.5') MSD</u>		<u>1410</u>		
	<u>13/15 Dug-01</u>				
	<u>14/16 Trip Blank</u>				
	<u>15/17 SD-1 (5'-7.5')</u>	<u>3/23/11</u>	<u>0850</u>	<u>S</u>	
	<u>16/18 SD-2 (5'-7.5')</u>	<u>3/23/11</u>	<u>1010</u>	<u>S</u>	

Date Rec'd in Lab: 3/24/11

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State / Fed Program Criteria ASP(B)

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

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

ANALYSIS
PCE, TCE, cis-1,2-DCE
vinyl chloride

SAMPLE HANDLING
Filtration _____
 Done
 Not needed
 Lab to do
Preservation
 Lab to do
(Please specify below)
Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

Relinquished By: PWGC Date/Time: 3/23/11 1100
Container Type A
Preservative A

Received By: [Signature] Date/Time: 3/24/11 15230

IS YOUR PROJECT
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[Signature]

[Signature]

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



ANALYTICAL REPORT

Lab Number:	L1104032
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE - BUILDING 2
Project Number:	BAE 1101
Report Date:	04/04/11

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Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: BAE - BUILDING 2
Project Number: BAE 1101

Lab Number: L1104032
Report Date: 04/04/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1104032-01	SS-COMPACTOR	GREENLAWN, NY	03/25/11 16:12
L1104032-02	SS-REPRO	GREENLAWN, NY	03/25/11 16:21
L1104032-03	SS-MATERIALS	GREENLAWN, NY	03/25/11 16:31
L1104032-04	SS-PIF	GREENLAWN, NY	03/25/11 16:38
L1104032-05	SS-PAINT	GREENLAWN, NY	03/25/11 16:45
L1104032-06	IA-COMPACTOR	GREENLAWN, NY	03/25/11 16:12
L1104032-07	IA-REPRO	GREENLAWN, NY	03/25/11 16:21
L1104032-08	IA-MATERIALS	GREENLAWN, NY	03/25/11 16:31
L1104032-09	IA-PIF	GREENLAWN, NY	03/25/11 16:38
L1104032-10	IA-PAINT	GREENLAWN, NY	03/25/11 16:45
L1104032-11	IA-DUP	GREENLAWN, NY	03/25/11 00:00
L1104032-12	OA-1	GREENLAWN, NY	03/25/11 16:48
L1104032-13	SV-1	GREENLAWN, NY	03/25/11 12:04
L1104032-14	SV-2	GREENLAWN, NY	03/25/11 12:04
L1104032-15	SV-3	GREENLAWN, NY	03/25/11 12:04
L1104032-16	SV-4	GREENLAWN, NY	03/25/11 12:04
L1104032-17	SV-5	GREENLAWN, NY	03/25/11 12:04
L1104032-18	SV-6	GREENLAWN, NY	03/25/11 12:04

Project Name: BAE - BUILDING 2
Project Number: BAE 1101

Lab Number: L1104032
Report Date: 04/04/11

Case Narrative

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

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

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

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

The canister certification results are provided as an addendum.

L1104032-16 The RPD of the pre- and post-flow controller calibration check (33% RPD) was outside acceptable limits (< or = 20% RPD).

Volatile Organics in Air

L1104032-01 through -05, -14, -16, and -17 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1104032-13, -15, -18, and WG460881-5 Duplicate have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the samples.

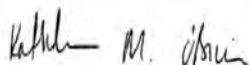
Project Name: BAE - BUILDING 2
Project Number: BAE 1101

Lab Number: L1104032
Report Date: 04/04/11

Case Narrative (continued)

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

Authorized Signature:



Kathleen O'Brien

Title: Technical Director/Representative

Date: 04/04/11

AIR

Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-01 D
 Client ID: SS-COMPACTOR
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 00:52
 Analyst: AR

Date Collected: 03/25/11 16:12
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	6.38	--	ND	16.3	--		31.88
cis-1,2-Dichloroethene	ND	6.38	--	ND	25.2	--		31.88
Trichloroethene	26.7	6.38	--	143	34.2	--		31.88
Tetrachloroethene	1380	6.38	--	9340	43.2	--		31.88

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	100		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-02 D
 Client ID: SS-REPRO
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 01:28
 Analyst: AR

Date Collected: 03/25/11 16:21
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	23.4	--	ND	59.8	--		117.1
cis-1,2-Dichloroethene	211	23.4	--	837	92.8	--		117.1
Trichloroethene	277	23.4	--	1490	126	--		117.1
Tetrachloroethene	8810	23.4	--	59700	159	--		117.1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	106		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	101		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-03 D
 Client ID: SS-MATERIALS
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 02:03
 Analyst: AR

Date Collected: 03/25/11 16:31
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	21.3	--	ND	54.3	--		106.3
cis-1,2-Dichloroethene	69.4	21.3	--	275	84.2	--		106.3
Trichloroethene	1090	21.3	--	5860	114	--		106.3
Tetrachloroethene	7930	21.3	--	53800	144	--		106.3

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	101		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-04 D
 Client ID: SS-PIF
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 02:40
 Analyst: AR

Date Collected: 03/25/11 16:38
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	7.97	--	ND	20.4	--		39.84
cis-1,2-Dichloroethene	398	7.97	--	1580	31.6	--		39.84
Trichloroethene	853	7.97	--	4580	42.8	--		39.84
Tetrachloroethene	2220	7.97	--	15000	54.0	--		39.84

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-05 D
 Client ID: SS-PAINT
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 03:15
 Analyst: AR

Date Collected: 03/25/11 16:45
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	8.65	--	ND	22.1	--		43.25
cis-1,2-Dichloroethene	127	8.65	--	503	34.3	--		43.25
Trichloroethene	189	8.65	--	1010	46.4	--		43.25
Tetrachloroethene	2380	8.65	--	16200	58.6	--		43.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	104		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-06
 Client ID: IA-COMPACTOR
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/29/11 19:55
 Analyst: RY

Date Collected: 03/25/11 16:12
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Trichloroethene	0.037	0.020	--	0.199	0.107	--		1
Tetrachloroethene	1.02	0.020	--	6.90	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	90		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-07
 Client ID: IA-REPRO
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/29/11 21:08
 Analyst: RY

Date Collected: 03/25/11 16:21
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	0.151	0.020	--	0.598	0.079	--		1
Trichloroethene	0.153	0.020	--	0.822	0.107	--		1
Tetrachloroethene	10.8	0.020	--	73.2	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-08
 Client ID: IA-MATERIALS
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/29/11 21:44
 Analyst: RY

Date Collected: 03/25/11 16:31
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	0.396	0.020	--	1.57	0.079	--		1
Trichloroethene	0.092	0.020	--	0.494	0.107	--		1
Tetrachloroethene	4.47	0.020	--	30.3	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-09
 Client ID: IA-PIF
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/29/11 22:20
 Analyst: RY

Date Collected: 03/25/11 16:38
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	0.513	0.020	--	2.03	0.079	--		1
Trichloroethene	0.071	0.020	--	0.381	0.107	--		1
Tetrachloroethene	3.08	0.020	--	20.9	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-10
 Client ID: IA-PAINT
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/29/11 22:56
 Analyst: RY

Date Collected: 03/25/11 16:45
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	0.066	0.020	--	0.261	0.079	--		1
Trichloroethene	0.095	0.020	--	0.510	0.107	--		1
Tetrachloroethene	3.71	0.020	--	25.2	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-11
 Client ID: IA-DUP
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/29/11 23:32
 Analyst: RY

Date Collected: 03/25/11 00:00
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	0.144	0.020	--	0.570	0.079	--		1
Trichloroethene	0.147	0.020	--	0.789	0.107	--		1
Tetrachloroethene	9.95	0.020	--	67.4	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-12
 Client ID: OA-1
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/30/11 00:07
 Analyst: RY

Date Collected: 03/25/11 16:48
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.162	0.020	--	1.10	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-13 D
 Client ID: SV-1
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/11 21:58
 Analyst: AR

Date Collected: 03/25/11 12:04
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
cis-1,2-Dichloroethene	55.2	0.400	--	219	1.58	--		2
Trichloroethene	4.43	0.400	--	23.8	2.15	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	95		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-14 D
 Client ID: SV-2
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 03:51
 Analyst: AR

Date Collected: 03/25/11 12:04
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	23.9	--	ND	61.1	--		119.6
cis-1,2-Dichloroethene	692	23.9	--	2740	94.8	--		119.6
Trichloroethene	419	23.9	--	2250	128	--		119.6
Tetrachloroethene	7770	23.9	--	52600	162	--		119.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	101		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-15 D
 Client ID: SV-3
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/11 23:07
 Analyst: AR

Date Collected: 03/25/11 12:04
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
cis-1,2-Dichloroethene	24.0	2.00	--	95.0	7.92	--		10
Trichloroethene	17.7	2.00	--	95.0	10.7	--		10
Tetrachloroethene	238	2.00	--	1610	13.6	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-16 D
 Client ID: SV-4
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 04:26
 Analyst: AR

Date Collected: 03/25/11 12:04
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	13.8	--	ND	35.2	--		68.85
cis-1,2-Dichloroethene	952	13.8	--	3770	54.6	--		68.85
Trichloroethene	304	13.8	--	1630	73.9	--		68.85
Tetrachloroethene	3920	13.8	--	26600	93.3	--		68.85

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	103		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-17 D
 Client ID: SV-5
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/11 23:41
 Analyst: AR

Date Collected: 03/25/11 12:04
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
cis-1,2-Dichloroethene	697	2.00	--	2760	7.92	--		10
Trichloroethene	339	2.00	--	1820	10.7	--		10
Tetrachloroethene	698	2.00	--	4730	13.6	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	100		60-140



Project Name: BAE - BUILDING 2**Lab Number:** L1104032**Project Number:** BAE 1101**Report Date:** 04/04/11**SAMPLE RESULTS**

Lab ID: L1104032-18 D
 Client ID: SV-6
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/31/11 00:16
 Analyst: AR

Date Collected: 03/25/11 12:04
 Date Received: 03/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
cis-1,2-Dichloroethene	4.57	0.400	--	18.1	1.58	--		2
Trichloroethene	6.78	0.400	--	36.4	2.15	--		2
Tetrachloroethene	56.9	0.400	--	385	2.71	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	99		60-140



Project Name: BAE - BUILDING 2

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/29/11 16:01

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 06-12 Batch: WG460702-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: BAE - BUILDING 2

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/30/11 17:11

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-05,13-18 Batch: WG460881-4								
Propylene	ND	0.500	--	ND	0.860	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1



Project Name: BAE - BUILDING 2

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/30/11 17:11

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-05,13-18 Batch: WG460881-4								
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1



Project Name: BAE - BUILDING 2

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/30/11 17:11

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-05,13-18 Batch: WG460881-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Project Number: BAE 1101

Lab Number: L1104032

Report Date: 04/04/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 06-12 Batch: WG460702-3								
Vinyl chloride	92		-		70-130	-		25
cis-1,2-Dichloroethene	92		-		70-130	-		25
Trichloroethene	92		-		70-130	-		25
Tetrachloroethene	92		-		70-130	-		25

Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 Batch: WG460881-3								
Chlorodifluoromethane	84		-		70-130	-		
Propylene	87		-		70-130	-		
Propane	79		-		70-130	-		
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	88		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	94		-		70-130	-		
Methanol	83		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Project Number: BAE 1101

Lab Number: L1104032

Report Date: 04/04/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 Batch: WG460881-3								
Butane	88		-		70-130	-		
Bromomethane	88		-		70-130	-		
Chloroethane	94		-		70-130	-		
Ethyl Alcohol	92		-		70-130	-		
Dichlorofluoromethane	86		-		70-130	-		
Vinyl bromide	93		-		70-130	-		
Acrolein	102		-		70-130	-		
Acetone	108		-		70-130	-		
Acetonitrile	103		-		70-130	-		
Trichlorofluoromethane	96		-		70-130	-		
iso-Propyl Alcohol	102		-		70-130	-		
Acrylonitrile	105		-		70-130	-		
Pentane	98		-		70-130	-		
Ethyl ether	100		-		70-130	-		
1,1-Dichloroethene	96		-		70-130	-		
tert-Butyl Alcohol	98		-		70-130	-		
Methylene chloride	87		-		70-130	-		
3-Chloropropene	91		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 Batch: WG460881-3								
1,1-Dichloroethane	98		-		70-130	-		
Methyl tert butyl ether	110		-		70-130	-		
Vinyl acetate	121		-		70-130	-		
2-Butanone	115		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		
Ethyl Acetate	121		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	99		-		70-130	-		
2,2-Dichloropropane	100		-		70-130	-		
1,2-Dichloroethane	102		-		70-130	-		
n-Hexane	96		-		70-130	-		
Isopropyl Ether	108		-		70-130	-		
Ethyl-Tert-Butyl-Ether	112		-		70-130	-		
1,1,1-Trichloroethane	99		-		70-130	-		
1,1-Dichloropropene	101		-		70-130	-		
Benzene	95		-		70-130	-		
Carbon tetrachloride	101		-		70-130	-		
Cyclohexane	92		-		70-130	-		
Tertiary-Amyl Methyl Ether	113		-		70-130	-		
Dibromomethane	96		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Project Number: BAE 1101

Lab Number: L1104032

Report Date: 04/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 Batch: WG460881-3								
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	104		-		70-130	-		
Trichloroethene	97		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Heptane	92		-		70-130	-		
2,4,4-Trimethyl-1-Pentene	91		-		70-130	-		
cis-1,3-Dichloropropene	113		-		70-130	-		
4-Methyl-2-pentanone	103		-		70-130	-		
2,4,4-Trimethyl-2-Pentene	98		-		70-130	-		
trans-1,3-Dichloropropene	99		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	98		-		70-130	-		
1,3-Dichloropropane	106		-		70-130	-		
2-Hexanone	120		-		70-130	-		
Dibromochloromethane	102		-		70-130	-		
1,2-Dibromoethane	103		-		70-130	-		
Butyl Acetate	113		-		70-130	-		
Octane	97		-		70-130	-		
Tetrachloroethene	96		-		70-130	-		
1,1,1,2-Tetrachloroethane	103		-		70-130	-		
Chlorobenzene	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Project Number: BAE 1101

Lab Number: L1104032

Report Date: 04/04/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 Batch: WG460881-3								
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	110		-		70-130	-		
Styrene	114		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	110		-		70-130	-		
1,2,3-Trichloropropane	123		-		70-130	-		
Nonane (C9)	102		-		70-130	-		
Isopropylbenzene	109		-		70-130	-		
Bromobenzene	112		-		70-130	-		
o-Chlorotoluene	105		-		70-130	-		
n-Propylbenzene	110		-		70-130	-		
p-Chlorotoluene	109		-		70-130	-		
4-Ethyltoluene	115		-		70-130	-		
1,3,5-Trimethylbenzene	112		-		70-130	-		
tert-Butylbenzene	107		-		70-130	-		
1,2,4-Trimethylbenzene	118		-		70-130	-		
Decane (C10)	112		-		70-130	-		
Benzyl chloride	126		-		70-130	-		
1,3-Dichlorobenzene	114		-		70-130	-		
1,4-Dichlorobenzene	115		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Project Number: BAE 1101

Lab Number: L1104032

Report Date: 04/04/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 Batch: WG460881-3								
sec-Butylbenzene	112		-		70-130	-		
p-Isopropyltoluene	109		-		70-130	-		
1,2-Dichlorobenzene	113		-		70-130	-		
n-Butylbenzene	129		-		70-130	-		
1,2-Dibromo-3-chloropropane	124		-		70-130	-		
Undecane	138	Q	-		70-130	-		
Dodecane (C12)	128		-		70-130	-		
1,2,4-Trichlorobenzene	128		-		70-130	-		
Naphthalene	123		-		70-130	-		
1,2,3-Trichlorobenzene	123		-		70-130	-		
Hexachlorobutadiene	122		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE - BUILDING 2

Project Number: BAE 1101

Lab Number: L1104032

Report Date: 04/04/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 06-12 QC Batch ID: WG460702-5 QC Sample: L1104032-06 Client ID: IA-COMPACTOR						
Vinyl chloride	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Trichloroethene	0.037	0.038	ppbV	3		25
Tetrachloroethene	1.02	1.08	ppbV	6		25

Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-05,13-18 QC Batch ID: WG460881-5 QC Sample: L1104032-13 Client ID: SV-1						
Vinyl chloride	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	55.2	54.9	ppbV	1		25
Trichloroethene	4.43	4.44	ppbV	0		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1104032-01	SS-COMPACTOR	0184	#16 AMB		-	-	4.1	4.3	5
L1104032-01	SS-COMPACTOR	175	2.7L Can	I1103361	-29.1	-3.5	-	-	-
L1104032-02	SS-REPRO	0402	#16 AMB		-	-	4.4	4.8	9
L1104032-02	SS-REPRO	464	2.7L Can	I1103361	-29.2	-0.1	-	-	-
L1104032-03	SS-MATERIALS	0120	#16 AMB		-	-	4.3	4.6	7
L1104032-03	SS-MATERIALS	217	2.7L Can	I1103361	-29.2	-5.3	-	-	-
L1104032-04	SS-PIF	0395	#16 AMB		-	-	4.1	4.7	14
L1104032-04	SS-PIF	542	2.7L Can	I1103361	-29.0	-3.6	-	-	-
L1104032-05	SS-PAINT	0237	#16 AMB		-	-	4.4	4.4	0
L1104032-05	SS-PAINT	251	2.7L Can	I1103361	-29.2	-5.6	-	-	-
L1104032-06	IA-COMPACTOR	0153	#90 SV		-	-	4.5	5.0	11
L1104032-06	IA-COMPACTOR	450	2.7L Can	I1103361	-29.2	-0.2	-	-	-
L1104032-07	IA-REPRO	0145	#16 AMB		-	-	4.1	4.2	2
L1104032-07	IA-REPRO	1721	2.7L Can	L1103583	-29.1	-5.3	-	-	-
L1104032-08	IA-MATERIALS	0010	#16 AMB		-	-	4.2	4.5	7
L1104032-08	IA-MATERIALS	212	2.7L Can	I1103361	-29.2	-3.6	-	-	-
L1104032-09	IA-PIF	0242	#20 AMB		-	-	4.5	5.0	11



Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1104032-09	IA-PIF	470	2.7L Can	I1102785	-29.8	-0.1	-	-	-
L1104032-10	IA-PAINT	0027	#16 AMB		-	-	4.1	4.5	9
L1104032-10	IA-PAINT	541	2.7L Can	I1103361	-29.2	-3.7	-	-	-
L1104032-11	IA-DUP	0363	#16 AMB		-	-	4.2	4.6	9
L1104032-11	IA-DUP	337	2.7L Can	I1103361	-28.9	-2.2	-	-	-
L1104032-12	OA-1	0389	#16 AMB		-	-	4.5	4.7	4
L1104032-12	OA-1	215	2.7L Can	I1103361	-29.2	-1.4	-	-	-
L1104032-13	SV-1	0047	#20 SV		-	-	17.5	16.3	7
L1104032-13	SV-1	505	2.7L Can	I1102706	-29.8	-9.4	-	-	-
L1104032-14	SV-2	0101	#30 AMB		-	-	17.5	19.4	10
L1104032-14	SV-2	380	2.7L Can	I1102706	-29.8	-0.5	-	-	-
L1104032-15	SV-3	0458	#30 SV		-	-	17.5	19.0	8
L1104032-15	SV-3	395	2.7L Can	I1102706	-29.8	-2.2	-	-	-
L1104032-16	SV-4	0006	#90 SV		-	-	17.5	24.4	33
L1104032-16	SV-4	126	2.7L Can	I1102540	-29.0	-0.8	-	-	-
L1104032-17	SV-5	0276	#30 AMB		-	-	17.5	19.0	8
L1104032-17	SV-5	334	2.7L Can	I1102785	-29.5	-3.0	-	-	-



Project Name: BAE - BUILDING 2

Serial_No:04041111:20

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1104032-18	SV-6	0250	#20 SV		-	-	17.8	19.8	11
L1104032-18	SV-6	109	2.7L Can	I1102706	-29.8	-0.8	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01
 Client ID: CAN 160 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 02/28/11 16:26
 Analyst: BS

Date Collected: 02/25/11 00:00
 Date Received: 02/25/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	75		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	84		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01
 Client ID: CAN 160 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/28/11 16:26
 Analyst: BS

Date Collected: 02/25/11 00:00
 Date Received: 02/25/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102540-01

Date Collected: 02/25/11 00:00

Client ID: CAN 160 SHELF 1

Date Received: 02/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01
 Client ID: CAN 109 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/02/11 18:53
 Analyst: RY

Date Collected: 02/28/11 00:00
 Date Received: 02/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	76		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	82		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01
 Client ID: CAN 109 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/02/11 18:53
 Analyst: RY

Date Collected: 02/28/11 00:00
 Date Received: 02/28/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102706-01

Date Collected: 02/28/11 00:00

Client ID: CAN 109 SHELF 2

Date Received: 02/28/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	77		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	83		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01
 Client ID: CAN 245 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/03/11 19:10
 Analyst: RY

Date Collected: 03/03/11 00:00
 Date Received: 03/03/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01
 Client ID: CAN 245 SHELF 3
 Sample Location:

Date Collected: 03/03/11 00:00
 Date Received: 03/03/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01

Date Collected: 03/03/11 00:00

Client ID: CAN 245 SHELF 3

Date Received: 03/03/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01

Date Collected: 03/03/11 00:00

Client ID: CAN 245 SHELF 3

Date Received: 03/03/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01

Date Collected: 03/03/11 00:00

Client ID: CAN 245 SHELF 3

Date Received: 03/03/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	100		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01
 Client ID: CAN 245 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/03/11 19:10
 Analyst: RY

Date Collected: 03/03/11 00:00
 Date Received: 03/03/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01

Date Collected: 03/03/11 00:00

Client ID: CAN 245 SHELF 3

Date Received: 03/03/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01

Date Collected: 03/03/11 00:00

Client ID: CAN 245 SHELF 3

Date Received: 03/03/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1102785-01

Date Collected: 03/03/11 00:00

Client ID: CAN 245 SHELF 3

Date Received: 03/03/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01
 Client ID: CAN 175 SHELF 8
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/15/11 18:30
 Analyst: BS

Date Collected: 03/15/11 00:00
 Date Received: 03/15/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	80		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01
 Client ID: CAN 175 SHELF 8
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/15/11 18:30
 Analyst: BS

Date Collected: 03/15/11 00:00
 Date Received: 03/15/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103361-01

Date Collected: 03/15/11 00:00

Client ID: CAN 175 SHELF 8

Date Received: 03/15/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01
 Client ID: CAN 214 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/19/11 18:18
 Analyst: RY

Date Collected: 03/17/11 00:00
 Date Received: 03/17/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01
 Client ID: CAN 214 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/19/11 18:18
 Analyst: RY

Date Collected: 03/17/11 00:00
 Date Received: 03/17/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**Air Canister Certification Results**

Lab ID: L1103583-01

Date Collected: 03/17/11 00:00

Client ID: CAN 214 SHELF 1

Date Received: 03/17/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102540**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1102540-01
Client ID: CAN 160 SHELF 1
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 03/04/11 19:54
Analyst: RY

Date Collected: 02/25/11 00:00
Date Received: 02/25/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102706**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1102706-01
 Client ID: CAN 109 SHELF 2
 Sample Location: Not Specified
 Matrix: Air
 Analytical Method: 96,APH
 Analytical Date: 03/04/11 21:42
 Analyst: RY

Date Collected: 02/28/11 00:00
 Date Received: 02/28/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1102785**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1102785-01
Client ID: CAN 245 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 03/04/11 22:18
Analyst: RY

Date Collected: 03/03/11 00:00
Date Received: 03/03/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103361**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1103361-01
Client ID: CAN 175 SHELF 8
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 03/20/11 00:43
Analyst: RY

Date Collected: 03/15/11 00:00
Date Received: 03/15/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1103583**Project Number:** CANISTER QC BAT**Report Date:** 04/04/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1103583-01
Client ID: CAN 214 SHELF 1
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 03/20/11 11:59
Analyst: RY

Date Collected: 03/17/11 00:00
Date Received: 03/17/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BAE - BUILDING 2

Lab Number: L1104032

Project Number: BAE 1101

Report Date: 04/04/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

NA Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1104032-01A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-02A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-03A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-04A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-05A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-06A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-07A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-08A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-09A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-10A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-11A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-12A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-SIM(30)
L1104032-13A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-14A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-15A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-16A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-17A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)
L1104032-18A	Canister - 2.7 Liter	NA	NA	na	NA	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: BAE - BUILDING 2
Project Number: BAE 1101

Lab Number: L1104032
Report Date: 04/04/11

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: BAE - BUILDING 2
Project Number: BAE 1101

Lab Number: L1104032
Report Date: 04/04/11

Data Qualifiers

the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

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

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

Project Name: BAE - BUILDING 2
Project Number: BAE 1101

Lab Number: L1104032
Report Date: 04/04/11

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised March 23, 2011 – Mansfield Facility

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

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C.)

Air & Emissions (EPA TO-15.)

Massachusetts Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA, 245.1, 245.7, 1631E, 180.1, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081, 8082, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7470A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082, 8081A.)

Minnesota Department of Environmental Protection Certificate/Lab ID: MA015. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, EPA 200.8, SM2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 7470A, 9040B, 6020, 9010B, 9014 Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B, 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3630C, 3640A)

Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 9014, 9040B, 120.1, SM2510B, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Code Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to LA-DEQ Certificate for Non-Potable Water.

Gas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. Non-Potable Water (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

Storm Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

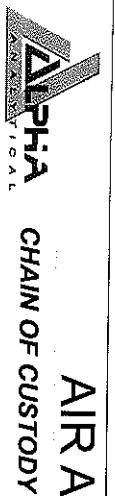
Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

analtes not accredited by NELAP

Certification is not available by NELAP for the following analytes: **C**Biphenyl. **H**Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.



AIR ANALYSIS

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PW Grosser
 Address: 630 Johnson Ave, Ste 7
Belmont, NY 11716
 Phone: (631) 589-8705 ~~6353~~
 Fax: (631) 589-8705
 Email: JohnE@PWGrosser.com

Project Information

Project Name: BAE-Building 2
 Project Location: Greenlawn, NY
 Project #: BAE 1101
 Project Manager: Sohn Eichen
 ALPHA Quote #:
 Turn-Around Time

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker:
(Default based on Regulatory Criteria Indicated)
 Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
ASP(B)
 Report to: (if different than Project Manager)

Billing Information

Same as Client info
 PO #:

ALPHA Job #: L1104032

Regulatory Requirements/Report Limits

State/Fed Program Criteria

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:
ASP(B) Analyze for PCE, TCE, TCE cis-1,2-DOE, vinyl chloride

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID-Flow Controller	ANALYSIS					Sample Comments (i.e. PID)	
		Date	Start Time	End Time	Vacuum						Initial Vacuum	Final Vacuum	TO-14A by TO-15	TO-15	TO-15 SIM		APH
L1104032-01	SS-Compactor	3/25/11	0812	1612		SV	SE	175	0184	X							
	-02 SS-Repro		0821	1621				464	0402	X							
	-03 SS-Materials		0831	1631				217	0120	X							
	-04 SS-PIF		0838	1638				542	0395	X							
	-05 SS-Paint		0845	1645				251	0237	X							
	-06 IA-Compactor		0812	1612		AA		450	0153	X							
	-07 IA-Repro		0821	1621				1721	0145	X							
	-08 IA-Materials		0831	1631				212	0010	X							
	-09 IA-PIF		0838	1638				470	0242	X							
	-10 IA-Paint		0845	1645				541	0027	X							

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

CS CS

Relinquished By:

Date/Time

Received By:

Date/Time

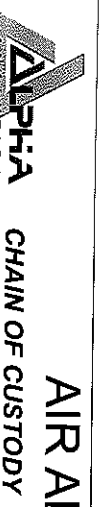
Form No: 101-02 (19-Jun-09)
 P. Schultz 3/29/11 10:30
 Kim Bann 3/29/11 10:30

[Signature]
 3/28/11 12:30

[Signature]
 3/28/11 12:30

[Signature]
 3/28/11 12:30
[Signature]
 3/28/11 16:00
 3/29/11 9:45

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



AIR ANALYSIS

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PW Grosser
 Address: 630 Johnson Ave, Ste 7
 Bohemia, NY 11716
 Phone: (631) 589-6353
 Fax: (631) 589-8705
 Email: John E @ PW Grosser

Project Information

Project Name: BAE - Building 2
 Project Location: Greenvale, NY
 Project #: BAE 1101
 Project Manager: John Eicher
 ALPHA Quote #:
 Turn-Around Time

Date Due: Standard RUSH (only confirmed if pre-approved)
 Time:

Other Project Specific Requirements/Comments:
 ASP(B) Analyze for PCE, TCE, cis-1,2-DCE, vinyl chloride

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS					
		Date	Start Time	End Time	Vacuum						TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A
1109032-11	IA-Dup	3/25/11				AA	JE	337	0363		X					
	-12		0848	1648		AA		215	0389		X					
	-13		1004	1204		SV		505	0047		X					
	-14		1004	1204				380	0101		X					
	-15		1004	1204				395	458		X					
	-16		1004	1204				126	0006		X					
	-17		1004	1204				334	0276		X					
	-18		1004	1204				109	0250		X					

***SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

CS CS

Relinquished By: *[Signature]* Date/Time: 3/29/11 1230
 Received By: *[Signature]* Date/Time: 3/28/11 1230
 Date: 3/29/11 1030
 Date: 3/28/11 1620
 Date: 3/28/11 945

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



ANALYTICAL REPORT

Lab Number:	L1104095
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE-BUILDING 2
Project Number:	BAE 1101
Report Date:	04/01/11

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

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

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



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1104095-01	LP-1 (18')	GREENLAWN, NY	03/25/11 10:45

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Case Narrative

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

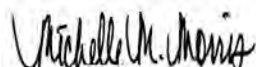
Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data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

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

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

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 04/01/11

ORGANICS

VOLATILES

Project Name: BAE-BUILDING 2**Lab Number:** L1104095**Project Number:** BAE 1101**Report Date:** 04/01/11**SAMPLE RESULTS**

Lab ID: L1104095-01
Client ID: LP-1 (18')
Sample Location: GREENLAWN, NY
Matrix: Soil
Analytical Method: 1,8260B
Analytical Date: 03/30/11 09:42
Analyst: BN
Percent Solids: 32%

Date Collected: 03/25/11 10:45
Date Received: 03/29/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	840		ug/kg	7.8	--	1
Vinyl chloride	ND		ug/kg	16	--	1
Trichloroethene	680		ug/kg	7.8	--	1
cis-1,2-Dichloroethene	39		ug/kg	7.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	89		70-130

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/30/11 07:58
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG460892-3					
Methylene chloride	ND		ug/kg	25	--
1,1-Dichloroethane	ND		ug/kg	3.8	--
Chloroform	ND		ug/kg	3.8	--
Carbon tetrachloride	ND		ug/kg	2.5	--
1,2-Dichloropropane	ND		ug/kg	8.8	--
Dibromochloromethane	ND		ug/kg	2.5	--
1,1,2-Trichloroethane	ND		ug/kg	3.8	--
Tetrachloroethene	ND		ug/kg	2.5	--
Chlorobenzene	ND		ug/kg	2.5	--
Trichlorofluoromethane	ND		ug/kg	12	--
1,2-Dichloroethane	ND		ug/kg	2.5	--
1,1,1-Trichloroethane	ND		ug/kg	2.5	--
Bromodichloromethane	ND		ug/kg	2.5	--
trans-1,3-Dichloropropene	ND		ug/kg	2.5	--
cis-1,3-Dichloropropene	ND		ug/kg	2.5	--
1,1-Dichloropropene	ND		ug/kg	12	--
Bromoform	ND		ug/kg	10	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5	--
Benzene	ND		ug/kg	2.5	--
Toluene	ND		ug/kg	3.8	--
Ethylbenzene	ND		ug/kg	2.5	--
Chloromethane	ND		ug/kg	12	--
Bromomethane	ND		ug/kg	5.0	--
Vinyl chloride	ND		ug/kg	5.0	--
Chloroethane	ND		ug/kg	5.0	--
1,1-Dichloroethene	ND		ug/kg	2.5	--
trans-1,2-Dichloroethene	ND		ug/kg	3.8	--
Trichloroethene	ND		ug/kg	2.5	--
1,2-Dichlorobenzene	ND		ug/kg	12	--
1,3-Dichlorobenzene	ND		ug/kg	12	--
1,4-Dichlorobenzene	ND		ug/kg	12	--



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/30/11 07:58
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG460892-3					
Methyl tert butyl ether	ND		ug/kg	5.0	--
p/m-Xylene	ND		ug/kg	5.0	--
o-Xylene	ND		ug/kg	5.0	--
cis-1,2-Dichloroethene	ND		ug/kg	2.5	--
Dibromomethane	ND		ug/kg	25	--
Styrene	ND		ug/kg	5.0	--
Dichlorodifluoromethane	ND		ug/kg	25	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	25	--
2-Butanone	ND		ug/kg	25	--
Vinyl acetate	ND		ug/kg	25	--
4-Methyl-2-pentanone	ND		ug/kg	25	--
1,2,3-Trichloropropane	ND		ug/kg	25	--
2-Hexanone	ND		ug/kg	25	--
Bromochloromethane	ND		ug/kg	12	--
2,2-Dichloropropane	ND		ug/kg	12	--
1,2-Dibromoethane	ND		ug/kg	10	--
1,3-Dichloropropane	ND		ug/kg	12	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5	--
Bromobenzene	ND		ug/kg	12	--
n-Butylbenzene	ND		ug/kg	2.5	--
sec-Butylbenzene	ND		ug/kg	2.5	--
tert-Butylbenzene	ND		ug/kg	12	--
o-Chlorotoluene	ND		ug/kg	12	--
p-Chlorotoluene	ND		ug/kg	12	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	--
Hexachlorobutadiene	ND		ug/kg	12	--
Isopropylbenzene	ND		ug/kg	2.5	--
p-Isopropyltoluene	ND		ug/kg	2.5	--
Naphthalene	ND		ug/kg	12	--
Acrylonitrile	ND		ug/kg	25	--



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/30/11 07:58
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG460892-3					
n-Propylbenzene	ND		ug/kg	2.5	--
1,2,3-Trichlorobenzene	ND		ug/kg	12	--
1,2,4-Trichlorobenzene	ND		ug/kg	12	--
1,3,5-Trimethylbenzene	ND		ug/kg	12	--
1,2,4-Trimethylbenzene	ND		ug/kg	12	--
1,4-Diethylbenzene	ND		ug/kg	10	--
4-Ethyltoluene	ND		ug/kg	10	--
1,2,4,5-Tetramethylbenzene	ND		ug/kg	10	--
Ethyl ether	ND		ug/kg	12	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	12	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG460892-1 WG460892-2								
Chlorobenzene	99		98		60-133	1		30
Benzene	98		97		66-142	1		30
Toluene	89		88		59-139	1		30
1,1-Dichloroethene	91		88		59-172	3		30
Trichloroethene	98		97		62-137	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		94		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	94		92		70-130

INORGANICS & MISCELLANEOUS

Project Name: BAE-BUILDING 2

Lab Number: L1104095

Project Number: BAE 1101

Report Date: 04/01/11

SAMPLE RESULTS

Lab ID: L1104095-01
 Client ID: LP-1 (18')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 03/25/11 10:45
 Date Received: 03/29/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	32		%	0.10	NA	1	-	03/31/11 11:38	30,2540G	MF



Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1101

Lab Number: L1104095

Report Date: 04/01/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG460995-1 QC Sample: L1104102-01 Client ID: DUP Sample						
Solids, Total	34	32	%	6		20

Project Name: BAE-BUILDING 2

Lab Number: L1104095

Project Number: BAE 1101

Report Date: 04/01/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1104095-01A	Vial Large unpreserved	A	N/A	3	Y	Absent	TS(7),NYTCL-8260(14)

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

Data Qualifiers

the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

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

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

Project Name: BAE-BUILDING 2
Project Number: BAE 1101

Lab Number: L1104095
Report Date: 04/01/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised February 23, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LCHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

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

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

Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Drinking Water (Organic Parameters: EPA 524.2)

Non-Potable Water (Inorganic Parameters: EPA 1312. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B)

3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Code Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Mass Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

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

Department of Health Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

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

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

Analyses Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EP** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EP** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EP** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EP** 4-Chloroaniline. **EP** for Ammonia in a Soil matrix.



ANALYTICAL REPORT

Lab Number:	L1111264
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE-GREENLAWN
Project Number:	BAE 1102
Report Date:	08/02/11

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

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



Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1111264-01	MS-SOUTH (4'-6')	BLDG 2, GREENLAWN, NY	07/22/11 07:30
L1111264-02	MS-NORTH (4'-6')	BLDG 2, GREENLAWN, NY	07/22/11 09:55
L1111264-03	FS (4'-6')	BLDG 2, GREENLAWN, NY	07/22/11 12:30
L1111264-04	DUP	BLDG 2, GREENLAWN, NY	07/22/11 00:00

Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

Case Narrative

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

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

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

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

Report Submission

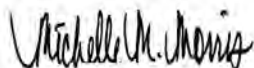
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The WG481962-4/-5 MS/MSD recoveries, performed on L1111264-03, were above the acceptance criteria for Trichloroethene (150%/158%); however, the associated LCS/LCSD recoveries were within criteria.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/02/11

ORGANICS

VOLATILES

Project Name: BAE-GREENLAWN**Lab Number:** L1111264**Project Number:** BAE 1102**Report Date:** 08/02/11**SAMPLE RESULTS**

Lab ID: L1111264-01
 Client ID: MS-SOUTH (4'-6')
 Sample Location: BLDG 2, GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 07/29/11 15:33
 Analyst: BN
 Percent Solids: 99%

Date Collected: 07/22/11 07:30
 Date Received: 07/26/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.5	0.77	1
Vinyl chloride	ND		ug/kg	5.0	1.9	1
Trichloroethene	ND		ug/kg	2.5	0.56	1
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.76	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.5	0.77	1
Vinyl chloride	ND		ug/kg	5.0	1.9	1
Trichloroethene	ND		ug/kg	2.5	0.56	1
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	94		70-130

Project Name: BAE-GREENLAWN**Lab Number:** L1111264**Project Number:** BAE 1102**Report Date:** 08/02/11**SAMPLE RESULTS**

Lab ID: L1111264-02
 Client ID: MS-NORTH (4'-6')
 Sample Location: BLDG 2, GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 07/29/11 16:07
 Analyst: BN
 Percent Solids: 98%

Date Collected: 07/22/11 09:55
 Date Received: 07/26/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.78	1
Vinyl chloride	ND		ug/kg	5.1	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	91		70-130

Project Name: BAE-GREENLAWN**Lab Number:** L1111264**Project Number:** BAE 1102**Report Date:** 08/02/11**SAMPLE RESULTS**

Lab ID: L1111264-03
 Client ID: FS (4'-6')
 Sample Location: BLDG 2, GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 07/29/11 16:42
 Analyst: BN
 Percent Solids: 98%

Date Collected: 07/22/11 12:30
 Date Received: 07/26/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.78	1
Vinyl chloride	ND		ug/kg	5.1	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.77	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.78	1
Vinyl chloride	ND		ug/kg	5.1	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	93		70-130

Project Name: BAE-GREENLAWN**Lab Number:** L1111264**Project Number:** BAE 1102**Report Date:** 08/02/11**SAMPLE RESULTS**

Lab ID: L1111264-04
Client ID: DUP
Sample Location: BLDG 2, GREENLAWN, NY
Matrix: Soil
Analytical Method: 1,8260B
Analytical Date: 07/29/11 18:26
Analyst: BN
Percent Solids: 98%

Date Collected: 07/22/11 00:00
Date Received: 07/26/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.78	1
Vinyl chloride	ND		ug/kg	5.1	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/29/11 08:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG481962-3					
Methylene chloride	ND		ug/kg	25	2.0
1,1-Dichloroethane	ND		ug/kg	3.8	0.74
Chloroform	ND		ug/kg	3.8	0.81
Carbon tetrachloride	ND		ug/kg	2.5	0.53
1,2-Dichloropropane	ND		ug/kg	8.8	0.64
Dibromochloromethane	ND		ug/kg	2.5	0.77
1,1,2-Trichloroethane	ND		ug/kg	3.8	0.98
Tetrachloroethene	ND		ug/kg	2.5	0.76
Chlorobenzene	ND		ug/kg	2.5	0.46
Trichlorofluoromethane	ND		ug/kg	12	0.98
1,2-Dichloroethane	ND		ug/kg	2.5	0.57
1,1,1-Trichloroethane	ND		ug/kg	2.5	0.67
Bromodichloromethane	ND		ug/kg	2.5	0.96
trans-1,3-Dichloropropene	ND		ug/kg	2.5	0.75
cis-1,3-Dichloropropene	ND		ug/kg	2.5	0.67
1,1-Dichloropropene	ND		ug/kg	12	1.1
Bromoform	ND		ug/kg	10	1.2
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5	0.60
Benzene	ND		ug/kg	2.5	0.74
Toluene	ND		ug/kg	3.8	0.60
Ethylbenzene	ND		ug/kg	2.5	0.55
Chloromethane	ND		ug/kg	12	2.0
Bromomethane	ND		ug/kg	5.0	1.6
Vinyl chloride	ND		ug/kg	5.0	1.9
Chloroethane	ND		ug/kg	5.0	1.1
1,1-Dichloroethene	ND		ug/kg	2.5	0.65
trans-1,2-Dichloroethene	ND		ug/kg	3.8	0.98
Trichloroethene	ND		ug/kg	2.5	0.56
1,2-Dichlorobenzene	ND		ug/kg	12	0.91
1,3-Dichlorobenzene	ND		ug/kg	12	1.0
1,4-Dichlorobenzene	ND		ug/kg	12	1.0



Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/29/11 08:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG481962-3					
Methyl tert butyl ether	ND		ug/kg	5.0	1.2
p/m-Xylene	ND		ug/kg	5.0	1.1
o-Xylene	ND		ug/kg	5.0	1.0
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.75
Dibromomethane	ND		ug/kg	25	1.1
Styrene	ND		ug/kg	5.0	1.8
Dichlorodifluoromethane	ND		ug/kg	25	0.97
Acetone	ND		ug/kg	25	8.1
Carbon disulfide	ND		ug/kg	25	0.94
2-Butanone	ND		ug/kg	25	9.7
Vinyl acetate	ND		ug/kg	25	1.9
4-Methyl-2-pentanone	ND		ug/kg	25	2.0
1,2,3-Trichloropropane	ND		ug/kg	25	0.97
2-Hexanone	ND		ug/kg	25	0.99
Bromochloromethane	ND		ug/kg	12	0.76
2,2-Dichloropropane	ND		ug/kg	12	2.0
1,2-Dibromoethane	ND		ug/kg	10	1.0
1,3-Dichloropropane	ND		ug/kg	12	1.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5	0.82
Bromobenzene	ND		ug/kg	12	0.55
n-Butylbenzene	ND		ug/kg	2.5	0.79
sec-Butylbenzene	ND		ug/kg	2.5	0.69
tert-Butylbenzene	ND		ug/kg	12	1.5
o-Chlorotoluene	ND		ug/kg	12	0.78
p-Chlorotoluene	ND		ug/kg	12	0.90
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	2.1
Hexachlorobutadiene	ND		ug/kg	12	1.1
Isopropylbenzene	ND		ug/kg	2.5	0.44
p-Isopropyltoluene	ND		ug/kg	2.5	0.68
Naphthalene	ND		ug/kg	12	1.9
Acrylonitrile	ND		ug/kg	25	0.94



Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/29/11 08:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG481962-3					
n-Propylbenzene	ND		ug/kg	2.5	0.71
1,2,3-Trichlorobenzene	ND		ug/kg	12	1.0
1,2,4-Trichlorobenzene	ND		ug/kg	12	2.0
1,3,5-Trimethylbenzene	ND		ug/kg	12	1.5
1,2,4-Trimethylbenzene	ND		ug/kg	12	1.4
1,4-Diethylbenzene	ND		ug/kg	10	0.50
4-Ethyltoluene	ND		ug/kg	10	0.24
1,2,4,5-Tetramethylbenzene	ND		ug/kg	10	0.45
Ethyl ether	ND		ug/kg	12	0.95
trans-1,4-Dichloro-2-butene	ND		ug/kg	12	3.7

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG481962-1 WG481962-2								
Chlorobenzene	95		99		60-133	4		30
Benzene	99		104		66-142	5		30
Toluene	96		100		59-139	4		30
1,1-Dichloroethene	86		92		59-172	7		30
Trichloroethene	97		102		62-137	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	115		123		70-130
Toluene-d8	102		106		70-130
4-Bromofluorobenzene	108		110		70-130
Dibromofluoromethane	101		105		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG481962-4 WG481962-5 QC Sample: L1111264-03 Client ID: FS (4'-6')												
Chlorobenzene	ND	51	45	89		48	94		60-133	6		30
Benzene	ND	51	48	94		50	98		66-142	4		30
Toluene	ND	51	46	89		48	94		59-139	5		30
1,1-Dichloroethene	ND	51	43	84		45	88		59-172	5		30
Trichloroethene	ND	51	77	150	Q	81	158	Q	62-137	5		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		111		70-130
4-Bromofluorobenzene	108		111		70-130
Dibromofluoromethane	94		99		70-130
Toluene-d8	102		109		70-130

INORGANICS & MISCELLANEOUS

Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

SAMPLE RESULTS

Lab ID: L1111264-01
 Client ID: MS-SOUTH (4'-6')
 Sample Location: BLDG 2, GREENLAWN, NY
 Matrix: Soil

Date Collected: 07/22/11 07:30
 Date Received: 07/26/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	08/01/11 12:49	30,2540G	MF



Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

SAMPLE RESULTS

Lab ID: L1111264-02
 Client ID: MS-NORTH (4'-6')
 Sample Location: BLDG 2, GREENLAWN, NY
 Matrix: Soil

Date Collected: 07/22/11 09:55
 Date Received: 07/26/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	08/01/11 12:49	30,2540G	MF



Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

SAMPLE RESULTS

Lab ID: L1111264-03

Date Collected: 07/22/11 12:30

Client ID: FS (4'-6')

Date Received: 07/26/11

Sample Location: BLDG 2, GREENLAWN, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	08/01/11 12:49	30,2540G	MF



Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

SAMPLE RESULTS

Lab ID: L1111264-04

Date Collected: 07/22/11 00:00

Client ID: DUP

Date Received: 07/26/11

Sample Location: BLDG 2, GREENLAWN, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98		%	0.10	NA	1	-	08/01/11 12:49	30,2540G	MF



Lab Duplicate Analysis
Batch Quality Control

Project Name: BAE-GREENLAWN

Project Number: BAE 1102

Lab Number: L1111264

Report Date: 08/02/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG482124-1 QC Sample: L1111264-01 Client ID: MS-SOUTH (4'-6')						
Solids, Total	99.	99	%	0		20

Project Name: BAE-GREENLAWN

Lab Number: L1111264

Project Number: BAE 1102

Report Date: 08/02/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1111264-01A	Vial Large unpreserved	A	N/A	5	Y	Absent	TS(7),NYTCL-8260(14)
L1111264-02A	Vial Large unpreserved	A	N/A	5	Y	Absent	TS(7),NYTCL-8260(14)
L1111264-03A	Vial Large unpreserved	A	N/A	5	Y	Absent	TS(7),NYTCL-8260(14)
L1111264-04A	Vial Large unpreserved	A	N/A	5	Y	Absent	TS(7),NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: DU Report with "J" Qualifiers



Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: BAE-GREENLAWN
Project Number: BAE 1102

Lab Number: L1111264
Report Date: 08/02/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

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

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

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

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

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

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

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

Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

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

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

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

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

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

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

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

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

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

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

Following analytes are not included in our current EPA Performance Score accreditation:
EP Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EP** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EP** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EP** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA
TEL: 508-998-9220
FAX: 508-998-9193

MANSFIELD, MA
TEL: 508-922-9300
FAX: 508-922-3288

Client Information

Client: PLW Grosser Consulting

Address: 630 Johnson Ave, Ste 7

Bohemia, NY 11716

Phone: (631) 589-6353

Fax: (631) 589-8705

Email: JohnE@PLWGrosser.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: BAE - Greenlawn

Project Location: Bldg 2, Greenlawn, NY

Project #: BAE 1102

Project Manager: John Eichler

ALPHA Quote #:

Turn-Around Time

Standard

RUSH (only confirmed if pre-approved)

Date Due: 8/2/11

Time:

Date Rec'd in Lab: 7/26/11

ALPHA Job #: 21111264

Report Information - Data Deliverables

FAX

EMAIL

ADEX

Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

Billing Information

Same as Client Info

PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

11264	1 MS-South (4'-6')	7/22/11	0730	Soil	JE
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	2 MS-North (4'-6')		0955		
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	3 FS (4'-6')		1230		
--	--------------	--	------	--	--

	4 Dup				
--	-------	--	--	--	--

TOTAL # BOTTLES	ANALYSIS	
	PCE, TCE, cis-1,2-DCE	vinyl chloride
	X	X
	X	X
	X	X
	X	X

- SAMPLE HANDLING**
- Filtration _____
 - Done
 - Not needed
 - Lab to do
 - Preservation
 - Lab to do
- (Please specify below)

Sample Specific Comments

MS/MSD

Relinquished By:	Date/Time	Container Type	Preservative	Received By:	Date/Time
<u>PLW GC</u>	<u>7/26/11 12:13</u>	<u>A</u>	<u>A</u>	<u>John E</u>	<u>7/26/11 12:13</u>
<u>STOCK</u>	<u>7/26/11 2:00</u>	<u>A</u>	<u>A</u>	<u>John E</u>	<u>7/26/11 2:00</u>

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



ANALYTICAL REPORT

Lab Number:	L1112010
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE-BUILDING 2
Project Number:	BAE 1102
Report Date:	08/15/11

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

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

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



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112010
Report Date: 08/15/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1112010-01	OT (0'-2')	GREENLAWN, NY	08/05/11 09:10
L1112010-02	MR (3'-4')	GREENLAWN, NY	08/05/11 11:00
L1112010-03	SHE (2'-3')	GREENLAWN, NY	08/05/11 13:05
L1112010-04	DUP	GREENLAWN, NY	08/05/11 00:00

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112010
Report Date: 08/15/11

Case Narrative

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

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

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

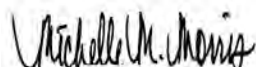
For additional information, please contact Client Services at 800-624-9220.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/15/11

ORGANICS

VOLATILES

Project Name: BAE-BUILDING 2**Lab Number:** L1112010**Project Number:** BAE 1102**Report Date:** 08/15/11**SAMPLE RESULTS**

Lab ID: L1112010-01
 Client ID: OT (0'-2')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/12/11 16:43
 Analyst: BN
 Percent Solids: 99%

Date Collected: 08/05/11 09:10
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	120		ug/kg	2.5	0.77	1
Vinyl chloride	ND		ug/kg	5.0	1.9	1
Trichloroethene	ND		ug/kg	2.5	0.56	1
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1112010**Project Number:** BAE 1102**Report Date:** 08/15/11**SAMPLE RESULTS**

Lab ID: L1112010-02
 Client ID: MR (3'-4')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/12/11 17:11
 Analyst: BN
 Percent Solids: 97%

Date Collected: 08/05/11 11:00
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.6	0.79	1
Vinyl chloride	ND		ug/kg	5.2	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	97		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1112010**Project Number:** BAE 1102**Report Date:** 08/15/11**SAMPLE RESULTS**

Lab ID: L1112010-03
 Client ID: SHE (2'-3')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/12/11 17:39
 Analyst: BN
 Percent Solids: 84%

Date Collected: 08/05/11 13:05
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	11		ug/kg	3.0	0.91	1
Vinyl chloride	ND		ug/kg	6.0	2.2	1
Trichloroethene	ND		ug/kg	3.0	0.67	1
cis-1,2-Dichloroethene	ND		ug/kg	3.0	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1112010**Project Number:** BAE 1102**Report Date:** 08/15/11**SAMPLE RESULTS**

Lab ID: L1112010-04
 Client ID: DUP
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/12/11 18:06
 Analyst: BN
 Percent Solids: 96%

Date Collected: 08/05/11 00:00
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.80	1
Vinyl chloride	ND		ug/kg	5.2	2.0	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.80	1
Vinyl chloride	ND		ug/kg	5.2	2.0	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	98		70-130

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112010
Report Date: 08/15/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/12/11 07:26
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG484248-3					
Tetrachloroethene	ND		ug/kg	2.5	0.76
Vinyl chloride	ND		ug/kg	5.0	1.9
Trichloroethene	ND		ug/kg	2.5	0.56
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.75

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112010

Report Date: 08/15/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG484248-1 WG484248-2								
Chlorobenzene	90		90		60-133	0		30
Benzene	98		97		66-142	1		30
Toluene	89		89		59-139	0		30
1,1-Dichloroethene	97		94		59-172	3		30
Trichloroethene	94		93		62-137	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		91		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	99		100		70-130

INORGANICS & MISCELLANEOUS

Project Name: BAE-BUILDING 2

Lab Number: L1112010

Project Number: BAE 1102

Report Date: 08/15/11

SAMPLE RESULTS

Lab ID: L1112010-01
 Client ID: OT (0'-2')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/05/11 09:10
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	08/15/11 07:20	30,2540G	MF



Project Name: BAE-BUILDING 2

Lab Number: L1112010

Project Number: BAE 1102

Report Date: 08/15/11

SAMPLE RESULTS

Lab ID: L1112010-02
 Client ID: MR (3'-4')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/05/11 11:00
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	08/12/11 15:41	30,2540G	MD



Project Name: BAE-BUILDING 2

Lab Number: L1112010

Project Number: BAE 1102

Report Date: 08/15/11

SAMPLE RESULTS

Lab ID: L1112010-03
 Client ID: SHE (2'-3')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/05/11 13:05
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84		%	0.10	NA	1	-	08/12/11 15:41	30,2540G	MD



Project Name: BAE-BUILDING 2

Lab Number: L1112010

Project Number: BAE 1102

Report Date: 08/15/11

SAMPLE RESULTS

Lab ID: L1112010-04
 Client ID: DUP
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/05/11 00:00
 Date Received: 08/08/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96		%	0.10	NA	1	-	08/12/11 15:41	30,2540G	MD



Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112010

Report Date: 08/15/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG484371-1 QC Sample: L1112339-01 Client ID: DUP Sample						
Solids, Total	87.	87	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG484472-1 QC Sample: L1112010-01 Client ID: OT (0'-2')						
Solids, Total	99.	99	%	0		20

Project Name: BAE-BUILDING 2

Lab Number: L1112010

Project Number: BAE 1102

Report Date: 08/15/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1112010-01A	Vial Large unpreserved	A	N/A	2	Y	Absent	TS(7),NYTCL-8260(14)
L1112010-02A	Vial Large unpreserved	A	N/A	2	Y	Absent	TS(7),NYTCL-8260(14)
L1112010-03A	Vial Large unpreserved	A	N/A	2	Y	Absent	TS(7),NYTCL-8260(14)
L1112010-04A	Vial Large unpreserved	A	N/A	2	Y	Absent	TS(7),NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112010
Report Date: 08/15/11

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: DU Report with "J" Qualifiers



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112010
Report Date: 08/15/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112010
Report Date: 08/15/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

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

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

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ti) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

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

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

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

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

Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

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

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

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

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

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

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

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

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

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

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

Following analytes are not included in our current EPA Performance Score accreditation:
EP Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EP** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EP** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EP** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.



ANALYTICAL REPORT

Lab Number:	L1112425
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE-BUILDING 2
Project Number:	BAE 1102
Report Date:	08/17/11

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

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112425
Report Date: 08/17/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1112425-01	SS-FS	GREENLAWN, NY	08/09/11 16:22
L1112425-02	IA-FS	GREENLAWN, NY	08/09/11 16:22
L1112425-03	SS-MR	GREENLAWN, NY	08/09/11 16:24
L1112425-04	IA-MR	GREENLAWN, NY	08/09/11 16:24
L1112425-05	SS-SHE	GREENLAWN, NY	08/09/11 16:26
L1112425-06	IA-SHE	GREENLAWN, NY	08/09/11 16:26
L1112425-07	SS-OT	GREENLAWN, NY	08/09/11 16:28
L1112425-08	IA-OT	GREENLAWN, NY	08/09/11 16:28
L1112425-09	SS-MSS	GREENLAWN, NY	08/09/11 16:30
L1112425-10	IA-MSS	GREENLAWN, NY	08/09/11 16:30
L1112425-11	SS-MSN	GREENLAWN, NY	08/09/11 16:32
L1112425-12	IA-MSN	GREENLAWN, NY	08/09/11 16:32
L1112425-13	OA	GREENLAWN, NY	08/09/11 16:34
L1112425-14	DUP	GREENLAWN, NY	08/09/11 00:00

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112425
Report Date: 08/17/11

Case Narrative

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

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

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

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

Volatile Organics in Air

The canister certification results are provided as an addendum.

L1112425-01, -03, -05, -07, and -11 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1112425-01, -03, and -05 were re-analyzed on dilution in order to quantitate the samples within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

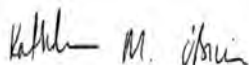
Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112425
Report Date: 08/17/11

Case Narrative (continued)

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

Authorized Signature:



Kathleen O'Brien

Title: Technical Director/Representative

Date: 08/17/11

AIR

Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-01 D
 Client ID: SS-FS
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 21:15
 Analyst: RY

Date Collected: 08/09/11 16:22
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.250	--	ND	0.639	--		1.25
cis-1,2-Dichloroethene	10.1	0.250	--	40.0	0.991	--		1.25
Trichloroethene	46.4	0.250	--	249	1.34	--		1.25
Tetrachloroethene	147	0.250	--	997	1.70	--	E	1.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	97		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-01 D2
 Client ID: SS-FS
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/17/11 06:39
 Analyst: RY

Date Collected: 08/09/11 16:22
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	159	0.400	--	1080	2.71	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	86		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-02
 Client ID: IA-FS
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 16:32
 Analyst: RY

Date Collected: 08/09/11 16:22
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	1.26	0.200	--	5.00	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	1.22	0.200	--	8.27	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-03 D
 Client ID: SS-MR
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 21:50
 Analyst: RY

Date Collected: 08/09/11 16:24
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
cis-1,2-Dichloroethene	23.5	0.400	--	93.2	1.58	--		2
Trichloroethene	29.7	0.400	--	160	2.15	--		2
Tetrachloroethene	215	0.400	--	1460	2.71	--	E	2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	72		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	76		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-03 D2

Date Collected: 08/09/11 16:24

Client ID: SS-MR

Date Received: 08/10/11

Sample Location: GREENLAWN, NY

Field Prep: Not Specified

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/17/11 07:13

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	221	0.667	--	1500	4.52	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	67		60-140
Bromochloromethane	77		60-140
chlorobenzene-d5	78		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-04
 Client ID: IA-MR
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 17:44
 Analyst: RY

Date Collected: 08/09/11 16:24
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	0.603	0.200	--	2.39	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	3.30	0.200	--	22.4	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	101		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-05 D
 Client ID: SS-SHE
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 22:24
 Analyst: RY

Date Collected: 08/09/11 16:26
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	3.29	--	ND	8.41	--		16.43
cis-1,2-Dichloroethene	85.3	3.29	--	338	13.0	--		16.43
Trichloroethene	102	3.29	--	548	17.7	--		16.43
Tetrachloroethene	1870	3.29	--	12700	22.3	--	E	16.43

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	83		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-05 D2

Date Collected: 08/09/11 16:26

Client ID: SS-SHE

Date Received: 08/10/11

Sample Location: GREENLAWN, NY

Field Prep: Not Specified

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/17/11 08:21

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	1880	6.70	--	12700	45.4	--		33.52

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	83		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-06
 Client ID: IA-SHE
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 18:19
 Analyst: RY

Date Collected: 08/09/11 16:26
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	0.598	0.200	--	2.37	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	3.15	0.200	--	21.4	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	98		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-07 D
 Client ID: SS-OT
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 22:57
 Analyst: RY

Date Collected: 08/09/11 16:28
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	3.46	--	ND	8.84	--		17.28
cis-1,2-Dichloroethene	96.5	3.46	--	383	13.7	--		17.28
Trichloroethene	117	3.46	--	629	18.6	--		17.28
Tetrachloroethene	1270	3.46	--	8610	23.5	--		17.28

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	100		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-08
 Client ID: IA-OT
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 18:54
 Analyst: RY

Date Collected: 08/09/11 16:28
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	0.244	0.200	--	0.967	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	2.71	0.200	--	18.4	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-09
 Client ID: SS-MSS
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 23:33
 Analyst: RY

Date Collected: 08/09/11 16:30
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	20.3	0.200	--	80.5	0.793	--		1
Trichloroethene	48.4	0.200	--	260	1.07	--		1
Tetrachloroethene	90.9	0.200	--	616	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-10
 Client ID: IA-MSS
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 19:29
 Analyst: RY

Date Collected: 08/09/11 16:30
 Date Received: 08/12/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	0.779	0.200	--	5.28	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-11 D
 Client ID: SS-MSN
 Sample Location: GREENLAWN, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 08/17/11 00:06
 Analyst: RY

Date Collected: 08/09/11 16:32
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	3.40	--	ND	8.69	--		16.98
cis-1,2-Dichloroethene	33.0	3.40	--	131	13.5	--		16.98
Trichloroethene	100	3.40	--	537	18.3	--		16.98
Tetrachloroethene	970	3.40	--	6580	23.0	--		16.98

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-12
 Client ID: IA-MSN
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 20:05
 Analyst: RY

Date Collected: 08/09/11 16:32
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	1.19	0.200	--	8.07	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	77		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-13
 Client ID: OA
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 15:57
 Analyst: RY

Date Collected: 08/09/11 16:34
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	0.214	0.200	--	1.45	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



Project Name: BAE-BUILDING 2**Lab Number:** L1112425**Project Number:** BAE 1102**Report Date:** 08/17/11**SAMPLE RESULTS**

Lab ID: L1112425-14
 Client ID: DUP
 Sample Location: GREENLAWN, NY
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 08/16/11 20:40
 Analyst: RY

Date Collected: 08/09/11 00:00
 Date Received: 08/10/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	0.223	0.200	--	0.884	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	2.54	0.200	--	17.2	1.36	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140



Project Name: BAE-BUILDING 2

Lab Number: L1112425

Project Number: BAE 1102

Report Date: 08/17/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/16/11 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-14 Batch: WG484778-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112425

Report Date: 08/17/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-14 Batch: WG484778-3								
Vinyl chloride	88		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		
Trichloroethene	82		-		70-130	-		
Tetrachloroethene	110		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112425

Report Date: 08/17/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG484778-5 QC Sample: L1112425-02 Client ID: IA-FS						
Vinyl chloride	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	1.26	1.17	ppbV	7		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	1.22	1.20	ppbV	2		25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1112425-01	SS-FS	0205	#20 AMB		-	-	4.3	4.6	7
L1112425-01	SS-FS	480	2.7L Can	L1111216	-29.6	-7.2	-	-	-
L1112425-02	IA-FS	0149	#16 AMB		-	-	4.0	4.9	20
L1112425-02	IA-FS	261	2.7L Can	L1111216	-29.6	-3.5	-	-	-
L1112425-03	SS-MR	0415	#16 AMB		-	-	4.5	4.7	4
L1112425-03	SS-MR	135	2.7L Can	L1111216	-29.6	-4.0	-	-	-
L1112425-04	IA-MR	0159	#90 SV		-	-	4.3	4.4	2
L1112425-04	IA-MR	251	2.7L Can	L1111216	-29.5	-3.9	-	-	-
L1112425-05	SS-SHE	0473	#16 AMB		-	-	4.5	4.7	4
L1112425-05	SS-SHE	1731	2.7L Can	L1111216	-29.4	-4.5	-	-	-
L1112425-06	IA-SHE	0173	#16 AMB		-	-	4.2	4.5	7
L1112425-06	IA-SHE	137	2.7L Can	L1111361	-28.5	-3.1	-	-	-
L1112425-07	SS-OT	0420	#16 AMB		-	-	4.2	4.6	9
L1112425-07	SS-OT	398	2.7L Can	L1111361	-29.4	-5.7	-	-	-
L1112425-08	IA-OT	0017	#16 AMB		-	-	4.4	4.6	4
L1112425-08	IA-OT	501	2.7L Can	L1111216	-29.1	-4.4	-	-	-
L1112425-09	SS-MSS	0212	#20 AMB		-	-	4.5	4.9	9



Project Name: BAE-BUILDING 2

Serial_No:08171118:36
Lab Number: L1112425

Project Number: BAE 1102

Report Date: 08/17/11

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1112425-09	SS-MSS	463	2.7L Can	L1111361	-28.8	-2.0	-	-	-
L1112425-10	IA-MSS	0427	#16 AMB		-	-	4.5	4.5	0
L1112425-10	IA-MSS	260	2.7L Can	L1111361	-29.4	-4.0	-	-	-
L1112425-11	SS-MSN	0495	#20 AMB		-	-	4.4	4.5	2
L1112425-11	SS-MSN	332	2.7L Can	L1111216	-29.4	-5.2	-	-	-
L1112425-12	IA-MSN	0194	#16 AMB		-	-	4.4	4.8	9
L1112425-12	IA-MSN	513	2.7L Can	L1111361	-29.4	-4.5	-	-	-
L1112425-13	OA	0004	#16 AMB		-	-	4.5	4.8	6
L1112425-13	OA	506	2.7L Can	L1111361	-29.4	-3.3	-	-	-
L1112425-14	DUP	0355	#16 SV		-	-	4.2	4.5	7
L1112425-14	DUP	262	2.7L Can	L1111361	-29.6	-4.5	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01
 Client ID: CAN 113 SHELF 13
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/26/11 18:44
 Analyst: RY

Date Collected: 07/25/11 00:00
 Date Received: 07/25/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01
 Client ID: CAN 113 SHELF 13
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/26/11 18:44
 Analyst: RY

Date Collected: 07/25/11 00:00
 Date Received: 07/25/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111216-01

Date Collected: 07/25/11 00:00

Client ID: CAN 113 SHELF 13

Date Received: 07/25/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	114		60-140
chlorobenzene-d5	94		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01
 Client ID: CAN 137 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/28/11 20:19
 Analyst: RY

Date Collected: 07/27/11 00:00
 Date Received: 07/27/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	112		60-140
chlorobenzene-d5	90		60-140



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01
 Client ID: CAN 137 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/28/11 20:19
 Analyst: RY

Date Collected: 07/27/11 00:00
 Date Received: 07/27/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**Air Canister Certification Results**

Lab ID: L1111361-01

Date Collected: 07/27/11 00:00

Client ID: CAN 137 SHELF 3

Date Received: 07/27/11

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	119		60-140
chlorobenzene-d5	90		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111216**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1111216-01
Client ID: CAN 113 SHELF 13
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 07/26/11 18:44
Analyst: AR

Date Collected: 07/25/11 00:00
Date Received: 07/25/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1111361**Project Number:** CANISTER QC BAT**Report Date:** 08/17/11**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1111361-01
Client ID: CAN 137 SHELF 3
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 08/02/11 19:14
Analyst: RY

Date Collected: 07/27/11 00:00
Date Received: 07/27/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BAE-BUILDING 2

Lab Number: L1112425

Project Number: BAE 1102

Report Date: 08/17/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1112425-01A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-02A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-03A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-04A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-05A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-06A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-07A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-08A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-09A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-10A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-11A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-12A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-13A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)
L1112425-14A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112425
Report Date: 08/17/11

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112425
Report Date: 08/17/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

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

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

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112425
Report Date: 08/17/11

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised August 4, 2011 – Mansfield Facility

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

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

Massachusetts Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA, 245.1, 245.7, 1631E, 180.1, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081, 8082, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7470A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082, 8081A.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: MA015. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9050A, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Code Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to LA-DEQ Certificate for Non-Potable Water.

Gas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. Non-Potable Water (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

Solar Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

analtes not accredited EOP

Certification is not available by NELAP for the following analytes: **C** Biphenyl. **H** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.



AIR ANALYSIS

CHAIN OF CUSTODY

PAGE 1 OF 2

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PW Grosser Consulting
 Address: 630 Johnson Ave. Ste 7
Bohemia, NY 11716
 Phone: (631) 589-6353
 Fax: (631) 589-8705
 Email: JohnE@PWGrosser.com

Project Information

Project Name: BAE - Building 2
 Project Location: Greenlawn, NY
 Project #: BAE 1102
 Project Manager: John Eichler
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
 Report to: (if different than Project Manager)

ALPHA Job #: L1112425

Billing Information

Same as Client info PO #: BAE 1102

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:
Analyze for PCE, TCE, cis-1-2-DCE, and vinyl chloride only

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS						Sample Comments (i.e. PID)		
		Date	Start Time	End Time	Initial Vacuum						Final Vacuum	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES		TO-13A	TO-4 / TO-10
12425-01	SS-FS	8/9/11	0822	1622			SV	JE	2.7	480	0205	X							
02	IA-FS		0822	1622			AA			261	0149								
03	SS-MR		0824	1624			SV			135	0415								
04	IA-MR		0824	1624			AA			251	0159								
05	SS-SHE		0826	1626			SV			1731	0473								
06	IA-SHE		0826	1626			AA			137	0173								
07	SS-OT		0828	1628			SV			398	0420								
08	IA-OT		0828	1628			AA			501	0017								
09	SS-MSS		0830	1630			SV			463	0212								
10	IA-MSS		0830	1630			AA			260	0427								

***SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

CS

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

* = Rec'd 8/12/11 @ 11:30

Relinquished By:

Date/Time

8/10/11 12:00
 8/10/11 17:00
 8/10/11 20:00
 8/11/11 01:30

Received By:

S. Wock
 Ret. Cole

Date/Time:

8/10/11 12:17
 8/10/11 17:00
 8/10/11 20:00
 8/11/11 7:00

O.R. Smith 8/11/11 @ 9:30
 Rec:

Rec: 8/11/11 8:30



AIR ANALYSIS

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PW Grosser Consulting
 Address: 630 Johnson Ave, Ste. 7
Bohemia, NY 11716
 Phone: (631) 589-6353
 Fax: (631) 589-8705
 Email: JohnE@PWGrosser.com

Project Information

Project Name: BAE - Building 2
 Project Location: Greenlawn, NY
 Project #: BAE 1102
 Project Manager: John Eichler
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
 Date Due: _____ Time: _____

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX ADEx
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
 Report to: (if different than Project Manager)

ALPHA Job #: L1112425

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS						Sample Comments (i.e. PID)
		Date	Start Time	End Time	TO-14A by TO-15								TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	
12425-11	SS-MSN	8/9/11	0832	1632			SV	JE	2.7	332	0495	X							
-12	IA-MSN	↓	0832	1632			AA	↓		513	0194	X							
73	OA	↓	0834	1634			AA	↓		506	0004	X							
74	DUP	↓	/	/			AA	↓		262	0355	X							

***SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

CS

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

Relinquished By:

Date/Time

Received By:

Date/Time

[Handwritten signatures and dates]
 Relinquished By: [Signature] Date/Time: 8/10/11 12:00
 Relinquished By: [Signature] Date/Time: 8/10/11 12:00
 Relinquished By: [Signature] Date/Time: 8/10/11 20:00
 Relinquished By: [Signature] Date/Time: 8/11/11 01:30
 Received By: [Signature] Date/Time: 8/10/11 12:17
 Received By: [Signature] Date/Time: 8/10/11 17:00
 Received By: [Signature] Date/Time: 8/10/11 20:00
 Received By: [Signature] Date/Time: 8/11/11 7:00
 Received By: [Signature] Date/Time: 8/11/11 8:35

Rec: [Signature] 8/11/11 @ 9:30



ANALYTICAL REPORT

Lab Number:	L1112905
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE-BUILDING 2
Project Number:	BAE 1102
Report Date:	08/26/11

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

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

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



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112905
Report Date: 08/26/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1112905-01	LP-2	GREENLAWN, NY	08/17/11 11:30
L1112905-02	LP-3	GREENLAWN, NY	08/17/11 12:30
L1112905-03	TP-1	GREENLAWN, NY	08/17/11 13:30

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112905
Report Date: 08/26/11

Case Narrative

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

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

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

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

Report Submission

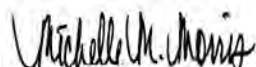
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The surrogate recovery for the WG486416-2 LCSD, associated with L1112905-01 and -02, is above the acceptance criteria for 1,2-Dichloroethane-d4 (135%). The associated LCSD spike compounds are within overall acceptance criteria; therefore, no further action was taken.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/26/11

ORGANICS

VOLATILES

Project Name: BAE-BUILDING 2**Lab Number:** L1112905**Project Number:** BAE 1102**Report Date:** 08/26/11**SAMPLE RESULTS**

Lab ID: L1112905-01
 Client ID: LP-2
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/24/11 17:33
 Analyst: BN
 Percent Solids: 97%

Date Collected: 08/17/11 11:30
 Date Received: 08/19/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.79	1
Vinyl chloride	ND		ug/kg	5.2	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.79	1
Vinyl chloride	ND		ug/kg	5.2	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	128		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	114		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1112905**Project Number:** BAE 1102**Report Date:** 08/26/11**SAMPLE RESULTS**

Lab ID: L1112905-02
 Client ID: LP-3
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/24/11 18:08
 Analyst: BN
 Percent Solids: 97%

Date Collected: 08/17/11 12:30
 Date Received: 08/19/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.79	1
Vinyl chloride	ND		ug/kg	5.2	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	ND		ug/kg	2.6	0.79	1
Vinyl chloride	ND		ug/kg	5.2	1.9	1
Trichloroethene	ND		ug/kg	2.6	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	125		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	112		70-130

Project Name: BAE-BUILDING 2**Lab Number:** L1112905**Project Number:** BAE 1102**Report Date:** 08/26/11**SAMPLE RESULTS**

Lab ID: L1112905-03
 Client ID: TP-1
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 08/25/11 18:22
 Analyst: BN
 Percent Solids: 93%

Date Collected: 08/17/11 13:30
 Date Received: 08/19/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tetrachloroethene	ND		ug/kg	2.7	0.82	1
Vinyl chloride	ND		ug/kg	5.4	2.0	1
Trichloroethene	ND		ug/kg	2.7	0.60	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	91		70-130

Project Name: BAE-BUILDING 2

Lab Number: L1112905

Project Number: BAE 1102

Report Date: 08/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 08/24/11 09:05
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG486416-3					
Tetrachloroethene	ND		ug/kg	2.5	0.76
Vinyl chloride	ND		ug/kg	5.0	1.9
Trichloroethene	ND		ug/kg	2.5	0.56
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.75

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	118		70-130

Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112905
Report Date: 08/26/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 08/25/11 07:45
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG486662-3					
Tetrachloroethene	ND		ug/kg	2.5	0.76
Vinyl chloride	ND		ug/kg	5.0	1.9
Trichloroethene	ND		ug/kg	2.5	0.56
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.75

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112905

Report Date: 08/26/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG486416-1 WG486416-2								
Chlorobenzene	101		110		60-133	9		30
Benzene	102		114		66-142	11		30
Toluene	102		111		59-139	8		30
1,1-Dichloroethene	99		113		59-172	13		30
Trichloroethene	104		114		62-137	9		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	130		135	Q	70-130
Toluene-d8	120		122		70-130
4-Bromofluorobenzene	112		115		70-130
Dibromofluoromethane	123		124		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112905

Report Date: 08/26/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG486662-1 WG486662-2								
Chlorobenzene	97		92		60-133	5		30
Benzene	105		105		66-142	0		30
Toluene	112		81		59-139	32	Q	30
1,1-Dichloroethene	93		104		59-172	11		30
Trichloroethene	111		108		62-137	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		106		70-130
Toluene-d8	106		80		70-130
4-Bromofluorobenzene	98		93		70-130
Dibromofluoromethane	89		99		70-130

INORGANICS & MISCELLANEOUS

Project Name: BAE-BUILDING 2

Lab Number: L1112905

Project Number: BAE 1102

Report Date: 08/26/11

SAMPLE RESULTS

Lab ID: L1112905-01
 Client ID: LP-2
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/17/11 11:30
 Date Received: 08/19/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	08/25/11 11:37	30,2540G	MD



Project Name: BAE-BUILDING 2

Lab Number: L1112905

Project Number: BAE 1102

Report Date: 08/26/11

SAMPLE RESULTS

Lab ID: L1112905-02
 Client ID: LP-3
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/17/11 12:30
 Date Received: 08/19/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97		%	0.10	NA	1	-	08/25/11 11:37	30,2540G	MD



Project Name: BAE-BUILDING 2

Lab Number: L1112905

Project Number: BAE 1102

Report Date: 08/26/11

SAMPLE RESULTS

Lab ID: L1112905-03
 Client ID: TP-1
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 08/17/11 13:30
 Date Received: 08/19/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93		%	0.10	NA	1	-	08/25/11 10:34	30,2540G	MD



Lab Duplicate Analysis Batch Quality Control

Project Name: BAE-BUILDING 2

Project Number: BAE 1102

Lab Number: L1112905

Report Date: 08/26/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG486459-1 QC Sample: L1112898-01 Client ID: DUP Sample						
Solids, Total	90.	89	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG486664-1 QC Sample: L1111552-115 Client ID: DUP Sample						
Solids, Total	76.	76	%	0		20



Project Name: BAE-BUILDING 2

Lab Number: L1112905

Project Number: BAE 1102

Report Date: 08/26/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1112905-01A	Vial Large unpreserved	A	N/A	4	Y	Absent	TS(7),NYTCL-8260(14)
L1112905-02A	Vial Large unpreserved	A	N/A	4	Y	Absent	TS(7),NYTCL-8260(14)
L1112905-03A	Vial Large unpreserved	A	N/A	4	Y	Absent	TS(7),NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112905
Report Date: 08/26/11

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: DU Report with "J" Qualifiers



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112905
Report Date: 08/26/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: BAE-BUILDING 2
Project Number: BAE 1102

Lab Number: L1112905
Report Date: 08/26/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised July 28, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

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

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

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

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

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

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

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

Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

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

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

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

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

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

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

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

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

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

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

Following analytes are not included in our current EPA Performance Score accreditation:
EP Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EP** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EP** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EP** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.



ANALYTICAL REPORT

Lab Number:	L1116309
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE BUILDING 2
Project Number:	BAE 1102
Report Date:	10/23/11

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

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



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1116309-01	LP-4	GREENLAWN, NY	10/06/11 15:00
L1116309-02	S-1 (2')	GREENLAWN, NY	10/06/11 00:00
L1116309-03	S-2 (4')	GREENLAWN, NY	10/06/11 00:00

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Case Narrative

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

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

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

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

Report Submission

This report replaces the report issued on October 17, 2011. The Volatile Organics and Semivolatile Organics compound lists for sample L1116309-01 have been amended.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

PCBs

L1116309-01 has elevated detection limits due to the dilution required by the sample matrix.

Metals

L1116309-01 has an elevated detection limit for Arsenic due to the dilution required by non-target analyte spectral interferences encountered during analysis.

Project Name: BAE BUILDING 2
Project Number: BAE 1102


Lab Number: L1116309
Report Date: 10/23/11

Case Narrative (continued)

The WG495801-4 MS recovery, performed on L1116309-01, is above the acceptance criteria for Mercury (176%). A post digestion spike was performed with an acceptable recovery of 101%.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 10/23/11

ORGANICS

VOLATILES

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-01
 Client ID: LP-4
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 10/11/11 15:34
 Analyst: BN
 Percent Solids: 36%

Date Collected: 10/06/11 15:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	69	5.7	1
1,1-Dichloroethane	12		ug/kg	10	2.0	1
Chloroform	ND		ug/kg	10	2.2	1
Carbon tetrachloride	ND		ug/kg	6.9	1.5	1
1,2-Dichloropropane	ND		ug/kg	24	1.8	1
Dibromochloromethane	ND		ug/kg	6.9	2.1	1
1,1,2-Trichloroethane	ND		ug/kg	10	2.7	1
Tetrachloroethene	ND		ug/kg	6.9	2.1	1
Chlorobenzene	ND		ug/kg	6.9	1.3	1
Trichlorofluoromethane	ND		ug/kg	35	2.7	1
1,2-Dichloroethane	ND		ug/kg	6.9	1.6	1
1,1,1-Trichloroethane	ND		ug/kg	6.9	1.9	1
Bromodichloromethane	ND		ug/kg	6.9	2.7	1
trans-1,3-Dichloropropene	ND		ug/kg	6.9	2.1	1
cis-1,3-Dichloropropene	ND		ug/kg	6.9	1.8	1
1,1-Dichloropropene	ND		ug/kg	35	3.2	1
Bromoform	ND		ug/kg	28	3.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	6.9	1.7	1
Benzene	ND		ug/kg	6.9	2.1	1
Toluene	5.2	J	ug/kg	10	1.7	1
Ethylbenzene	120		ug/kg	6.9	1.5	1
Chloromethane	ND		ug/kg	35	5.4	1
Vinyl chloride	ND		ug/kg	14	5.2	1
Chloroethane	ND		ug/kg	14	3.0	1
1,1-Dichloroethene	ND		ug/kg	6.9	1.8	1
trans-1,2-Dichloroethene	ND		ug/kg	10	2.7	1
Trichloroethene	ND		ug/kg	6.9	1.6	1
1,2-Dichlorobenzene	ND		ug/kg	35	2.5	1
1,3-Dichlorobenzene	ND		ug/kg	35	2.8	1
1,4-Dichlorobenzene	8.5	J	ug/kg	35	2.9	1
Methyl tert butyl ether	ND		ug/kg	14	3.4	1

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-01

Date Collected: 10/06/11 15:00

Client ID: LP-4

Date Received: 10/07/11

Sample Location: GREENLAWN, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	39		ug/kg	14	3.0	1
o-Xylene	28		ug/kg	14	2.9	1
cis-1,2-Dichloroethene	ND		ug/kg	6.9	2.1	1
Dibromomethane	ND		ug/kg	69	3.0	1
Styrene	96		ug/kg	14	5.0	1
Dichlorodifluoromethane	ND		ug/kg	69	2.7	1
Acetone	1100		ug/kg	69	22.	1
Carbon disulfide	9.0	J	ug/kg	69	2.6	1
2-Butanone	170		ug/kg	69	27.	1
Vinyl acetate	ND		ug/kg	69	5.2	1
4-Methyl-2-pentanone	ND		ug/kg	69	5.7	1
1,2,3-Trichloropropane	ND		ug/kg	69	2.7	1
2-Hexanone	ND		ug/kg	69	2.8	1
Bromochloromethane	ND		ug/kg	35	2.1	1
2,2-Dichloropropane	ND		ug/kg	35	5.5	1
1,2-Dibromoethane	ND		ug/kg	28	2.8	1
1,3-Dichloropropane	ND		ug/kg	35	3.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	6.9	2.3	1
Bromobenzene	ND		ug/kg	35	1.5	1
n-Butylbenzene	43		ug/kg	6.9	2.2	1
sec-Butylbenzene	35		ug/kg	6.9	1.9	1
tert-Butylbenzene	ND		ug/kg	35	4.2	1
o-Chlorotoluene	ND		ug/kg	35	2.2	1
p-Chlorotoluene	ND		ug/kg	35	2.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	35	5.8	1
Hexachlorobutadiene	ND		ug/kg	35	3.2	1
Isopropylbenzene	87		ug/kg	6.9	1.2	1
p-Isopropyltoluene	48		ug/kg	6.9	1.9	1
Naphthalene	28	J	ug/kg	35	5.3	1
Acrylonitrile	ND		ug/kg	69	2.6	1
n-Propylbenzene	140		ug/kg	6.9	2.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	35	2.8	1
1,2,4-Trichlorobenzene	ND		ug/kg	35	5.5	1
1,3,5-Trimethylbenzene	67		ug/kg	35	4.2	1
1,2,4-Trimethylbenzene	310		ug/kg	35	4.0	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	140	2.8	1
1,4-Diethylbenzene	110		ug/kg	28	1.4	1
4-Ethyltoluene	270		ug/kg	28	0.67	1
1,2,4,5-Tetramethylbenzene	29		ug/kg	28	1.2	1

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-01
 Client ID: LP-4
 Sample Location: GREENLAWN, NY

Date Collected: 10/06/11 15:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrahydrofuran	ND		ug/kg	140	7.8	1
Ethyl ether	ND		ug/kg	35	2.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	105		70-130

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-02
 Client ID: S-1 (2')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 10/11/11 16:02
 Analyst: BN
 Percent Solids: 82%

Date Collected: 10/06/11 00:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	190		ug/kg	3.0	0.93	1
Vinyl chloride	ND		ug/kg	6.1	2.3	1
trans-1,2-Dichloroethene	ND		ug/kg	4.6	1.2	1
Trichloroethene	ND		ug/kg	3.0	0.68	1
cis-1,2-Dichloroethene	ND		ug/kg	3.0	0.92	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-03
 Client ID: S-2 (4')
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8260B
 Analytical Date: 10/11/11 16:31
 Analyst: BN
 Percent Solids: 85%

Date Collected: 10/06/11 00:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	99		ug/kg	2.9	0.90	1
Vinyl chloride	ND		ug/kg	5.9	2.2	1
trans-1,2-Dichloroethene	ND		ug/kg	4.4	1.2	1
Trichloroethene	ND		ug/kg	2.9	0.66	1
cis-1,2-Dichloroethene	ND		ug/kg	2.9	0.89	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 10/11/11 09:20
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG495052-3					
Methylene chloride	ND		ug/kg	25	2.0
1,1-Dichloroethane	ND		ug/kg	3.8	0.74
Chloroform	ND		ug/kg	3.8	0.81
Carbon tetrachloride	ND		ug/kg	2.5	0.53
1,2-Dichloropropane	ND		ug/kg	8.8	0.64
Dibromochloromethane	ND		ug/kg	2.5	0.77
1,1,2-Trichloroethane	ND		ug/kg	3.8	0.98
Tetrachloroethene	ND		ug/kg	2.5	0.76
Chlorobenzene	ND		ug/kg	2.5	0.46
Trichlorofluoromethane	ND		ug/kg	12	0.98
1,2-Dichloroethane	ND		ug/kg	2.5	0.57
1,1,1-Trichloroethane	ND		ug/kg	2.5	0.67
Bromodichloromethane	ND		ug/kg	2.5	0.96
trans-1,3-Dichloropropene	ND		ug/kg	2.5	0.75
cis-1,3-Dichloropropene	ND		ug/kg	2.5	0.67
1,1-Dichloropropene	ND		ug/kg	12	1.1
Bromoform	ND		ug/kg	10	1.2
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.5	0.60
Benzene	ND		ug/kg	2.5	0.74
Toluene	ND		ug/kg	3.8	0.60
Ethylbenzene	ND		ug/kg	2.5	0.55
Chloromethane	ND		ug/kg	12	2.0
Bromomethane	ND		ug/kg	5.0	1.6
Vinyl chloride	ND		ug/kg	5.0	1.9
Chloroethane	ND		ug/kg	5.0	1.1
1,1-Dichloroethene	ND		ug/kg	2.5	0.65
trans-1,2-Dichloroethene	ND		ug/kg	3.8	0.98
Trichloroethene	ND		ug/kg	2.5	0.56
1,2-Dichlorobenzene	ND		ug/kg	12	0.91
1,3-Dichlorobenzene	ND		ug/kg	12	1.0
1,4-Dichlorobenzene	ND		ug/kg	12	1.0



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 10/11/11 09:20
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG495052-3					
Methyl tert butyl ether	ND		ug/kg	5.0	1.2
p/m-Xylene	ND		ug/kg	5.0	1.1
o-Xylene	ND		ug/kg	5.0	1.0
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.75
Dibromomethane	ND		ug/kg	25	1.1
Styrene	ND		ug/kg	5.0	1.8
Dichlorodifluoromethane	ND		ug/kg	25	0.97
Acetone	ND		ug/kg	25	8.1
Carbon disulfide	ND		ug/kg	25	0.94
2-Butanone	ND		ug/kg	25	9.7
Vinyl acetate	ND		ug/kg	25	1.9
4-Methyl-2-pentanone	ND		ug/kg	25	2.0
1,2,3-Trichloropropane	ND		ug/kg	25	0.97
2-Hexanone	ND		ug/kg	25	0.99
Bromochloromethane	ND		ug/kg	12	0.76
2,2-Dichloropropane	ND		ug/kg	12	2.0
1,2-Dibromoethane	ND		ug/kg	10	1.0
1,3-Dichloropropane	ND		ug/kg	12	1.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.5	0.82
Bromobenzene	ND		ug/kg	12	0.55
n-Butylbenzene	ND		ug/kg	2.5	0.79
sec-Butylbenzene	ND		ug/kg	2.5	0.69
tert-Butylbenzene	ND		ug/kg	12	1.5
o-Chlorotoluene	ND		ug/kg	12	0.78
p-Chlorotoluene	ND		ug/kg	12	0.90
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	2.1
Hexachlorobutadiene	ND		ug/kg	12	1.1
Isopropylbenzene	ND		ug/kg	2.5	0.44
p-Isopropyltoluene	ND		ug/kg	2.5	0.68
Naphthalene	ND		ug/kg	12	1.9
Acrylonitrile	ND		ug/kg	25	0.94



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 10/11/11 09:20
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG495052-3					
Isopropyl Ether	ND		ug/kg	10	1.0
tert-Butyl Alcohol	ND		ug/kg	150	3.1
n-Propylbenzene	ND		ug/kg	2.5	0.71
1,2,3-Trichlorobenzene	ND		ug/kg	12	1.0
1,2,4-Trichlorobenzene	ND		ug/kg	12	2.0
1,3,5-Trimethylbenzene	ND		ug/kg	12	1.5
1,2,4-Trimethylbenzene	ND		ug/kg	12	1.4
Methyl Acetate	ND		ug/kg	50	50.
Cyclohexane	ND		ug/kg	50	50.
1,4-Dioxane	ND		ug/kg	250	44.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	50	0.99
1,4-Diethylbenzene	ND		ug/kg	10	0.50
4-Ethyltoluene	ND		ug/kg	10	0.24
1,2,4,5-Tetramethylbenzene	ND		ug/kg	10	0.45
Tetrahydrofuran	ND		ug/kg	50	2.8
Ethyl ether	ND		ug/kg	12	0.95
trans-1,4-Dichloro-2-butene	ND		ug/kg	12	3.7
Methyl cyclohexane	ND		ug/kg	10	10.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG495052-1 WG495052-2								
Chlorobenzene	97		95		60-133	2		30
Benzene	110		108		66-142	2		30
Toluene	91		89		59-139	2		30
1,1-Dichloroethene	110		108		59-172	2		30
Trichloroethene	115		113		62-137	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	104		105		70-130

SEMIVOLATILES

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-01
 Client ID: LP-4
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8270C
 Analytical Date: 10/12/11 13:04
 Analyst: RC
 Percent Solids: 36%

Date Collected: 10/06/11 15:00
 Date Received: 10/07/11
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 10/10/11 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	360	98.	1
Fluoranthene	540		ug/kg	270	59.	1
Benzo(a)anthracene	210	J	ug/kg	270	90.	1
Benzo(a)pyrene	230	J	ug/kg	360	110	1
Benzo(b)fluoranthene	340		ug/kg	270	80.	1
Benzo(k)fluoranthene	97	J	ug/kg	270	70.	1
Chrysene	220	J	ug/kg	270	71.	1
Anthracene	ND		ug/kg	270	63.	1
Benzo(ghi)perylene	ND		ug/kg	360	110	1
Fluorene	ND		ug/kg	450	84.	1
Phenanthrene	760		ug/kg	270	76.	1
Dibenzo(a,h)anthracene	ND		ug/kg	270	84.	1
Indeno(1,2,3-cd)Pyrene	300	J	ug/kg	360	110	1
Pyrene	410		ug/kg	270	75.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	77		18-120

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 10/12/11 11:49
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 10/10/11 21:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG494920-1					
Acenaphthene	ND		ug/kg	130	36.
1,2,4-Trichlorobenzene	ND		ug/kg	160	48.
Hexachlorobenzene	ND		ug/kg	99	26.
Bis(2-chloroethyl)ether	ND		ug/kg	150	31.
2-Chloronaphthalene	ND		ug/kg	160	50.
1,2-Dichlorobenzene	ND		ug/kg	160	49.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	47.
3,3'-Dichlorobenzidine	ND		ug/kg	160	60.
2,4-Dinitrotoluene	ND		ug/kg	160	50.
2,6-Dinitrotoluene	ND		ug/kg	160	54.
Fluoranthene	ND		ug/kg	99	22.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	29.
4-Bromophenyl phenyl ether	ND		ug/kg	160	34.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	47.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	42.
Hexachlorobutadiene	ND		ug/kg	160	44.
Hexachlorocyclopentadiene	ND		ug/kg	470	130
Hexachloroethane	ND		ug/kg	130	24.
Isophorone	ND		ug/kg	150	39.
Naphthalene	ND		ug/kg	160	52.
Nitrobenzene	ND		ug/kg	150	48.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	42.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	46.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	34.
Butyl benzyl phthalate	ND		ug/kg	160	46.
Di-n-butylphthalate	ND		ug/kg	160	28.
Di-n-octylphthalate	ND		ug/kg	160	45.
Diethyl phthalate	ND		ug/kg	160	29.
Dimethyl phthalate	ND		ug/kg	160	27.
Benzo(a)anthracene	ND		ug/kg	99	33.



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 10/12/11 11:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/10/11 21:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG494920-1					
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	99	29.
Benzo(k)fluoranthene	ND		ug/kg	99	25.
Chrysene	ND		ug/kg	99	26.
Acenaphthylene	ND		ug/kg	130	43.
Anthracene	ND		ug/kg	99	23.
Benzo(ghi)perylene	ND		ug/kg	130	42.
Fluorene	ND		ug/kg	160	30.
Phenanthrene	ND		ug/kg	99	28.
Dibenzo(a,h)anthracene	ND		ug/kg	99	31.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	40.
Pyrene	ND		ug/kg	99	27.
Biphenyl	ND		ug/kg	380	120
4-Chloroaniline	ND		ug/kg	160	56.
2-Nitroaniline	ND		ug/kg	160	30.
3-Nitroaniline	ND		ug/kg	160	18.
4-Nitroaniline	ND		ug/kg	160	100
Dibenzofuran	ND		ug/kg	160	34.
2-Methylnaphthalene	ND		ug/kg	200	65.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	53.
Acetophenone	ND		ug/kg	160	53.
2,4,6-Trichlorophenol	ND		ug/kg	99	30.
P-Chloro-M-Cresol	ND		ug/kg	160	34.
2-Chlorophenol	ND		ug/kg	160	52.
2,4-Dichlorophenol	ND		ug/kg	150	48.
2,4-Dimethylphenol	ND		ug/kg	160	68.
2-Nitrophenol	ND		ug/kg	360	120
4-Nitrophenol	ND		ug/kg	230	70.
2,4-Dinitrophenol	ND		ug/kg	790	260
4,6-Dinitro-o-cresol	ND		ug/kg	430	160
Pentachlorophenol	ND		ug/kg	130	39.

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 10/12/11 11:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 10/10/11 21:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG494920-1					
Phenol	ND		ug/kg	160	52.
2-Methylphenol	ND		ug/kg	160	41.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	72.
2,4,5-Trichlorophenol	ND		ug/kg	160	38.
Benzoic Acid	ND		ug/kg	540	140
Benzyl Alcohol	ND		ug/kg	160	38.
Carbazole	ND		ug/kg	160	27.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	78		0-136
4-Terphenyl-d14	95		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG494920-2 WG494920-3								
Acenaphthene	92		84		31-137	9		50
1,2,4-Trichlorobenzene	90		79		38-107	13		50
2-Chloronaphthalene	106		99		40-140	7		50
1,2-Dichlorobenzene	87		80		40-140	8		50
1,4-Dichlorobenzene	84		81		28-104	4		50
2,4-Dinitrotoluene	99	Q	87		28-89	13		50
2,6-Dinitrotoluene	86		80		40-140	7		50
Fluoranthene	103		98		40-140	5		50
4-Chlorophenyl phenyl ether	90		81		40-140	11		50
n-Nitrosodi-n-propylamine	79		78		41-126	1		50
Butyl benzyl phthalate	89		84		40-140	6		50
Anthracene	102		98		40-140	4		50
Pyrene	103		99		35-142	4		50
P-Chloro-M-Cresol	90		88		26-103	2		50
2-Chlorophenol	98		96		25-102	2		50
2-Nitrophenol	75		78		30-130	4		50
4-Nitrophenol	102		98		11-114	4		50
2,4-Dinitrophenol	33		31		4-130	6		50
Pentachlorophenol	98		88		17-109	11		50
Phenol	88		92		31-133	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG494920-2 WG494920-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	100		100		25-120
Phenol-d6	92		98		10-120
Nitrobenzene-d5	99		102		23-120
2-Fluorobiphenyl	95		91		30-120
2,4,6-Tribromophenol	90		85		0-136
4-Terphenyl-d14	99		98		18-120

PCBS

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-01
Client ID: LP-4
Sample Location: GREENLAWN, NY
Matrix: Soil
Analytical Method: 1,8082
Analytical Date: 10/14/11 14:45
Analyst: GT
Percent Solids: 36%

Date Collected: 10/06/11 15:00
Date Received: 10/07/11
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 10/13/11 12:12
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/13/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/13/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	444	87.7	5
Aroclor 1221	ND		ug/kg	444	134.	5
Aroclor 1232	ND		ug/kg	444	94.3	5
Aroclor 1242	ND		ug/kg	444	84.3	5
Aroclor 1248	ND		ug/kg	444	53.7	5
Aroclor 1260	266	J	ug/kg	444	77.1	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	56		30-150
Decachlorobiphenyl	90		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	107		30-150

Project Name: BAE BUILDING 2**Lab Number:** L1116309**Project Number:** BAE 1102**Report Date:** 10/23/11**SAMPLE RESULTS**

Lab ID: L1116309-01
 Client ID: LP-4
 Sample Location: GREENLAWN, NY
 Matrix: Soil
 Analytical Method: 1,8082
 Analytical Date: 10/14/11 14:45
 Analyst: GT
 Percent Solids: 36%

Date Collected: 10/06/11 15:00
 Date Received: 10/07/11
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 10/13/11 12:12
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 10/13/11
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 10/13/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	563		ug/kg	444	70.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	56		30-150
Decachlorobiphenyl	90		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	107		30-150

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082
Analytical Date: 10/14/11 09:39
Analyst: GT

Extraction Method: EPA 3546
Extraction Date: 10/13/11 12:12
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/13/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/13/11

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG495633-1					
Aroclor 1016	ND		ug/kg	32.9	6.50
Aroclor 1221	ND		ug/kg	32.9	9.92
Aroclor 1232	ND		ug/kg	32.9	6.99
Aroclor 1242	ND		ug/kg	32.9	6.24
Aroclor 1248	ND		ug/kg	32.9	3.98
Aroclor 1254	ND		ug/kg	32.9	5.18
Aroclor 1260	ND		ug/kg	32.9	5.71
Aroclor 1262	ND		ug/kg	32.9	2.43
Aroclor 1268	ND		ug/kg	32.9	4.77

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	66		30-150
2,4,5,6-Tetrachloro-m-xylene	81		30-150
Decachlorobiphenyl	77		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG495633-2 WG495633-3								
Aroclor 1016	92		105		40-140	13		50
Aroclor 1260	91		85		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	112		103		30-150
Decachlorobiphenyl	96		73		30-150
2,4,5,6-Tetrachloro-m-xylene	124		99		30-150
Decachlorobiphenyl	120		92		30-150

METALS

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

SAMPLE RESULTS

Lab ID: L1116309-01

Date Collected: 10/06/11 15:00

Client ID: LP-4

Date Received: 10/07/11

Sample Location: GREENLAWN, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 36%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	ND		mg/kg	21	7.2	20	10/12/11 12:57	10/17/11 13:26	EPA 3050B	1,6010B	MG
Barium, Total	850		mg/kg	1.0	0.09	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Beryllium, Total	0.29	J	mg/kg	0.53	0.04	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Cadmium, Total	15		mg/kg	1.0	0.07	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Chromium, Total	6100		mg/kg	1.0	0.21	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Copper, Total	1200		mg/kg	1.0	0.49	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Lead, Total	200		mg/kg	5.3	0.29	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Mercury, Total	0.17	J	mg/kg	0.22	0.05	1	10/13/11 21:30	10/14/11 12:43	EPA 7471A	1,7471A	JP
Nickel, Total	72		mg/kg	2.6	0.29	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS
Silver, Total	7.4		mg/kg	1.0	0.17	1	10/12/11 12:57	10/16/11 11:34	EPA 3050B	1,6010B	MS



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG495353-1										
Arsenic, Total	ND		mg/kg	0.40	0.14	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Barium, Total	ND		mg/kg	0.40	0.03	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Beryllium, Total	ND		mg/kg	0.20	0.01	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Cadmium, Total	0.08	J	mg/kg	0.40	0.03	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Copper, Total	ND		mg/kg	0.40	0.18	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Lead, Total	0.16	J	mg/kg	2.0	0.11	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Nickel, Total	ND		mg/kg	1.0	0.11	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS
Silver, Total	0.07	J	mg/kg	0.40	0.07	1	10/12/11 12:57	10/16/11 11:12	1,6010B	MS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG495801-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	10/13/11 21:30	10/14/11 12:38	1,7471A	JP

Prep Information

Digestion Method: EPA 7471A



Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Project Number: BAE 1102

Lab Number: L1116309

Report Date: 10/23/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG495353-2								
Arsenic, Total	105		-		75-125	-		
Barium, Total	100		-		75-125	-		
Beryllium, Total	100		-		75-125	-		
Cadmium, Total	104		-		75-125	-		
Chromium, Total	100		-		75-125	-		
Copper, Total	103		-		75-125	-		
Lead, Total	104		-		75-125	-		
Nickel, Total	100		-		75-125	-		
Silver, Total	105		-		75-125	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG495801-2 SRM Lot Number: 0518-10-02								
Mercury, Total	92		-		67-133	-		

Matrix Spike Analysis Batch Quality Control

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG495353-4 QC Sample: L1116233-01 Client ID: MS Sample												
Arsenic, Total	2.1	9.84	12	100		-	-		75-125	-		35
Barium, Total	10.	164	170	98		-	-		75-125	-		35
Beryllium, Total	0.15J	4.1	4.1	100		-	-		75-125	-		35
Cadmium, Total	0.10J	4.18	4.2	100		-	-		75-125	-		35
Chromium, Total	6.1	16.4	23	103		-	-		75-125	-		35
Copper, Total	6.5	20.5	30	115		-	-		75-125	-		35
Lead, Total	16.	41.8	58	100		-	-		75-125	-		35
Nickel, Total	3.6	41	44	98		-	-		75-125	-		35
Silver, Total	0.07J	24.6	26	106		-	-		75-125	-		35
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG495801-4 QC Sample: L1116309-01 Client ID: LP-4												
Mercury, Total	0.17J	0.516	0.91	176	Q	-	-		70-130	-		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Project Number: BAE 1102

Lab Number: L1116309

Report Date: 10/23/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG495353-3 QC Sample: L1116233-01 Client ID: DUP Sample						
Arsenic, Total	2.1	2.2	mg/kg	5		35
Barium, Total	10.	11	mg/kg	10		35
Cadmium, Total	0.10J	0.28J	mg/kg	NC		35
Chromium, Total	6.1	6.9	mg/kg	12		35
Copper, Total	6.5	8.4	mg/kg	26		35
Lead, Total	16.	19	mg/kg	17		35
Silver, Total	0.07J	ND	mg/kg	NC		35
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG495801-3 QC Sample: L1116309-01 Client ID: LP-4						
Mercury, Total	0.17J	0.42	mg/kg	NC		35

INORGANICS & MISCELLANEOUS

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

SAMPLE RESULTS

Lab ID: L1116309-01
 Client ID: LP-4
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 10/06/11 15:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	36		%	0.10	NA	1	-	10/10/11 16:33	30,2540G	MD



Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

SAMPLE RESULTS

Lab ID: L1116309-02
 Client ID: S-1 (2')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 10/06/11 00:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82		%	0.10	NA	1	-	10/10/11 16:33	30,2540G	MD



Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

SAMPLE RESULTS

Lab ID: L1116309-03
 Client ID: S-2 (4')
 Sample Location: GREENLAWN, NY
 Matrix: Soil

Date Collected: 10/06/11 00:00
 Date Received: 10/07/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85		%	0.10	NA	1	-	10/10/11 16:33	30,2540G	MD



Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE BUILDING 2

Project Number: BAE 1102

Lab Number: L1116309

Report Date: 10/23/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG494895-1 QC Sample: L1116310-01 Client ID: DUP Sample						
Solids, Total	87.	86	%	1		20

Project Name: BAE BUILDING 2

Lab Number: L1116309

Project Number: BAE 1102

Report Date: 10/23/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1116309-01A	Vial Large unpreserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1116309-01B	Vial Large unpreserved	A	N/A	5	Y	Absent	NYTCL-8270(14),BA-TI(180),NYTCL-8082(14)
L1116309-01C	Vial Large unpreserved	A	N/A	5	Y	Absent	BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L1116309-02A	Vial Large unpreserved	A	N/A	5	Y	Absent	TS(7),NYTCL-8260(14)
L1116309-03A	Vial Large unpreserved	A	N/A	5	Y	Absent	TS(7),NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
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Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: BAE BUILDING 2
Project Number: BAE 1102

Lab Number: L1116309
Report Date: 10/23/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised September 19, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. *Organic Parameters:* PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. *Organic Parameters:* 504.1, 524.2.)

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

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

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. *Organic Parameters:* (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. *Microbiology Parameters:* SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

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

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

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

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

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

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

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

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

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

Following analytes are not included in our current EPA Scope of accreditation:
EP Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EP** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EP** C Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EP** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.



CHAIN OF CUSTODY

PAGE 1 OF 1

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

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

Client Information

Client: **DW Grosser**
 Address: **630 Johnson Ave Ste 7 Bohemia, NY 11716**
 Phone: **631 589-6353**
 Fax: **631 589-8705**
 Email: **John.E@DWGrosser.com**

Serial_No: 10231115:12

Project Information

Project Name: **BAE Building 2**
 Project Location: **Greenlawn, NY**
 Project #: **BAE 1102**
 Project Manager: **John Eichler**

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
 Date Due: _____ Time: _____

These samples have been previously analyzed by Alpha

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

LP-4
 5-1 (21)
 5-2 (41)

10/6/11 1500

S TE

X X X X

X X X X

ANALYSIS
 VOCs (SCDHS)
 SVOCs (SCDHS)
 Metals (SCDHS)
 PCE, TCE, 1,2-DCP
 Vinyl Chloride

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

SAMPLE HANDLING

- Filtration _____
- Done
- Not needed
- Lab to do
- Preservation
- Lab to do

Add PCBs

Date Recd in Lab:

ALPHA Job #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MAMCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Container Type	Preservative
A	A
A	A
A	A
A	A
A	A
A	A

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

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/7/11

ALPHA Job #: 101711

16309

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

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-9288

Client Information

Client: **DW Grosser**
Address: **630 Johnson Ave Ste 7 Bohemia, NY 11716**
Phone: **631 589-6353**
Fax: **631 589-8705**
Email: **JohnE@DwGrosser.com**

Project Information
Project Name: **BAE Building 2**
Project Location: **Greenlawn, NY**
Project #: **BAE 1102**
Project Manager: **John Eichler**
ALPHA Quote #:

Report Information - Data Deliverables
 FAX EMAIL
 ADEX Add'l Deliverables

Billing Information
 Same as Client info
PO #:

Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
Date Due: **10/14/11** Time:

Regulatory Requirements/Report Limits
State/Fed Program: _____ Criteria: _____
MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO
 Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (if yes see note in Comments)
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
--------------------------------	-----------	-----------------	-----------------	---------------	--------------------

16309.1	LP-4	10/6/11	1500	S	JE
	2 S-1 (2')				
	3 S-2 (4')				

ANALYSIS

ANALYSIS	16309.1	2 S-1 (2')	3 S-2 (4')
VOCs (SCDHS)	X	X	X
SVOCs (SCDHS)	X	X	X
Metals (SCDHS)			
PCE, TCE, 1,2-DCE		X	X
Vinyl Chloride			

SAMPLE HANDLING
Filtration: _____
 Done
 Not needed
 Lab to do
Preservation
 Lab to do

(Please specify below)
Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!
IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:	Date/Time	Container Type	Preservative	Received By:	Date/Time
<i>[Signature]</i>	10/7/11	A	A	<i>[Signature]</i>	10/7/11
<i>[Signature]</i>	10/7/11	A	A	<i>[Signature]</i>	10/7/11
<i>[Signature]</i>	10/7/11	A	A	<i>[Signature]</i>	10/7/11

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

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



ANALYTICAL REPORT

Lab Number:	L1121577
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	BAE GREENLAWN
Project Number:	BAE 1102
Report Date:	01/03/12

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: BAE GREENLAWN
Project Number: BAE 1102

Lab Number: L1121577
Report Date: 01/03/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1121577-01	SSDS-1	BAE SSDS BLDG 2	12/22/11 12:15
L1121577-02	SSDS-2	BAE SSDS BLDG 2	12/22/11 13:30
L1121577-03	SSDS-3	BAE SSDS BLDG 2	12/22/11 14:30

Project Name: BAE GREENLAWN
Project Number: BAE 1102

Lab Number: L1121577
Report Date: 01/03/12

Case Narrative

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

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

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

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

Volatile Organics in Air

Canisters were released from the laboratory on December 21, 2011.

The canister certification results are provided as an addendum.

L1121577-01 through -03 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1121577-01 through -03 were diluted and re-analyzed in order to quantitate the samples within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

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

Authorized Signature:

 Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/03/12

AIR

Project Name: BAE GREENLAWN**Lab Number:** L1121577**Project Number:** BAE 1102**Report Date:** 01/03/12**SAMPLE RESULTS**

Lab ID: L1121577-01 D
 Client ID: SSDS-1
 Sample Location: BAE SSDS BLDG 2
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 12/29/11 23:55
 Analyst: RY

Date Collected: 12/22/11 12:15
 Date Received: 12/23/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	58.1	--	ND	148.	--		290.5
cis-1,2-Dichloroethene	468	58.1	--	1860	230	--		290.5
Trichloroethene	432	58.1	--	2320	312	--		290.5
Tetrachloroethene	33500	58.1	--	227000	394	--	E	290.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140



Project Name: BAE GREENLAWN**Lab Number:** L1121577**Project Number:** BAE 1102**Report Date:** 01/03/12**SAMPLE RESULTS**

Lab ID: L1121577-01 D2
 Client ID: SSDS-1
 Sample Location: BAE SSDS BLDG 2
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 12/30/11 09:16
 Analyst: RY

Date Collected: 12/22/11 12:15
 Date Received: 12/23/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	35700	145	--	242000	983	--		726.1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140



Project Name: BAE GREENLAWN**Lab Number:** L1121577**Project Number:** BAE 1102**Report Date:** 01/03/12**SAMPLE RESULTS**

Lab ID: L1121577-02 D
 Client ID: SSDS-2
 Sample Location: BAE SSDS BLDG 2
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 12/30/11 00:29
 Analyst: RY

Date Collected: 12/22/11 13:30
 Date Received: 12/23/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	69.1	--	ND	177.	--		345.5
cis-1,2-Dichloroethene	474	69.1	--	1880	274	--		345.5
Trichloroethene	411	69.1	--	2210	371	--		345.5
Tetrachloroethene	36600	69.1	--	248000	468	--	E	345.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140



Project Name: BAE GREENLAWN**Lab Number:** L1121577**Project Number:** BAE 1102**Report Date:** 01/03/12**SAMPLE RESULTS**

Lab ID: L1121577-02 D2
Client ID: SSSD-2
Sample Location: BAE SSSD BLDG 2
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/30/11 09:49
Analyst: RY

Date Collected: 12/22/11 13:30
Date Received: 12/23/11
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	33000	173	--	224000	1170	--		863.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140



Project Name: BAE GREENLAWN**Lab Number:** L1121577**Project Number:** BAE 1102**Report Date:** 01/03/12**SAMPLE RESULTS**

Lab ID: L1121577-03 D
Client ID: SSDS-3
Sample Location: BAE SSDS BLDG 2
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/30/11 01:03
Analyst: RY

Date Collected: 12/22/11 14:30
Date Received: 12/23/11
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Vinyl chloride	ND	62.1	--	ND	159.	--		310.7
cis-1,2-Dichloroethene	503	62.1	--	1990	246	--		310.7
Trichloroethene	488	62.1	--	2620	334	--		310.7
Tetrachloroethene	42400	62.1	--	288000	421	--	E	310.7

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	81		60-140



Project Name: BAE GREENLAWN**Lab Number:** L1121577**Project Number:** BAE 1102**Report Date:** 01/03/12**SAMPLE RESULTS**

Lab ID: L1121577-03 D2
Client ID: SSSD-3
Sample Location: BAE SSSD BLDG 2
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/30/11 10:23
Analyst: RY

Date Collected: 12/22/11 14:30
Date Received: 12/23/11
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	35400	155	--	240000	1050	--		776.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	91		60-140



Project Name: BAE GREENLAWN

Lab Number: L1121577

Project Number: BAE 1102

Report Date: 01/03/12

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/29/11 14:04

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-03 Batch: WG511140-4								
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: BAE GREENLAWN

Project Number: BAE 1102

Lab Number: L1121577

Report Date: 01/03/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-03 Batch: WG511140-3								
Vinyl chloride	94		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
cis-1,2-Dichloroethene	104		-		70-130	-		
Benzene	90		-		70-130	-		
Trichloroethene	104		-		70-130	-		
Toluene	89		-		70-130	-		
Tetrachloroethene	115		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	94		-		70-130	-		
o-Xylene	98		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: BAE GREENLAWN

Project Number: BAE 1102

Lab Number: L1121577

Report Date: 01/03/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG511140-5 QC Sample: L1121577-03 Client ID: SSDS-3						
Vinyl chloride	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	503	500	ppbV	1		25
Trichloroethene	488	461	ppbV	6		25
Tetrachloroethene	42400E	39100E	ppbV	8		25
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG511140-5 QC Sample: L1121577-03 Client ID: SSDS-3						
Tetrachloroethene	35400	40600	ppbV	14		25

Project Name: BAE GREENLAWN

Serial_No:01031213:46

Lab Number: L1121577

Project Number: BAE 1102

Report Date: 01/03/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1121577-01	SSDS-1	1529	6.0L Can	L1120422	-28.5	-1.6	-	-	-
L1121577-02	SSDS-2	1038	6.0L Can	L1120422	-28.8	-6.0	-	-	-
L1121577-03	SSDS-3	935	6.0L Can	L1120422	-28.2	-3.5	-	-	-



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01
 Client ID: CAN 633 SHELF 46
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 12/08/11 17:52
 Analyst: RY

Date Collected: 12/06/11 12:00
 Date Received: 12/07/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01 Date Collected: 12/06/11 12:00
 Client ID: CAN 633 SHELF 46 Date Received: 12/07/11
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01 Date Collected: 12/06/11 12:00
 Client ID: CAN 633 SHELF 46 Date Received: 12/07/11
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01
 Client ID: CAN 633 SHELF 46
 Sample Location:

Date Collected: 12/06/11 12:00
 Date Received: 12/07/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	89		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01
 Client ID: CAN 633 SHELF 46
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/08/11 17:52
 Analyst: RY

Date Collected: 12/06/11 12:00
 Date Received: 12/07/11
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01 Date Collected: 12/06/11 12:00
 Client ID: CAN 633 SHELF 46 Date Received: 12/07/11
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1120422
Report Date: 01/03/12

Air Canister Certification Results

Lab ID: L1120422-01 Date Collected: 12/06/11 12:00
 Client ID: CAN 633 SHELF 46 Date Received: 12/07/11
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140



AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1120422**Project Number:** CANISTER QC BAT**Report Date:** 01/03/12**AIR CAN CERTIFICATION RESULTS**

Lab ID: L1120422-01
Client ID: CAN 633 SHELF 46
Sample Location: Not Specified
Matrix: Air
Analytical Method: 96,APH
Analytical Date: 12/08/11 17:52
Analyst: RY

Date Collected: 12/06/11 12:00
Date Received: 12/07/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BAE GREENLAWN

Lab Number: L1121577

Project Number: BAE 1102

Report Date: 01/03/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1121577-01A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1121577-02A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)
L1121577-03A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days



Project Name: BAE GREENLAWN
Project Number: BAE 1102

Lab Number: L1121577
Report Date: 01/03/12

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report



Project Name: BAE GREENLAWN
Project Number: BAE 1102

Lab Number: L1121577
Report Date: 01/03/12

Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BAE GREENLAWN
Project Number: BAE 1102

Lab Number: L1121577
Report Date: 01/03/12

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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



Certificate of Approval Program Summary

Last revised December 9, 2011 – Mansfield Facility

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

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

Massachusetts Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: MA015. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

Department of Health Certificate/Lab ID: 11627. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 **NELAP Accredited**

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474. Organic Parameters: EPA 3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Code Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

Refer to LA-DEQ Certificate for Non-Potable Water.

Gas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Shermors Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Air & Emissions (EPA TO-15.)

analtes not accredited **EEPP**

Certification is not available by NELAP for the following analytes: **CB** Biphenyl. **HH** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: BAE SSDS Bldg 2
Project Location: BAE Greenlawn
Project #: BAE 1102
Project Manager: John Eichler
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX
 ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
Report to: (if different than Project Manager)

ALPHA Job #: L1121577

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Client Information

Client: PW Grosser
Address: 630 Johnson Ave Suite 7
Bohemia, NY 11716
Phone: (631) 589-6353
Fax: (631) 589-8705
Email: John.E@PWGrosser.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Analyze PCE, TCE, 1,2-DCE, and vinyl chloride only

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS				Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum	Final Vacuum						TO-14A by TO-15	TO-15 PCE, TCE	TO-15-SHM	1,2-DCE, VC	
L1121577-1	SSDS-1	12/22/11	1215				SV	JE	6L	1529		X	X			
-2	SSDS-2	↓	1330				SV	JE	6L	1038		X	X			
-3	SSDS-3	↓	1430				SV	JE	6L	935		X	X			

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

CSCS

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

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>12/23/11 11:00</u>	<u>[Signature]</u>	<u>12/23/11 11:09</u>
<u>P. Gilbert</u>	<u>12/23/11 2:25</u>	<u>[Signature]</u>	<u>12/23/11 2:25</u>
<u>[Signature]</u>	<u>12/27/11 1000</u>	<u>[Signature]</u>	<u>12/27/11 0900</u>

APPENDIX D

STEP TEST				
TIME (5 MIN)	FLOW (CFM)	VELOCITY (FT/MIN)	MANOMETER (IN WC)	VAC (PSI)
10:12-10:15	40	1833.613	0.210	6.000
	41	1879.454	0.220	
	42	1925.294	0.231	
	43	1971.134	0.243	
	44	2016.974	0.254	
10:15-10:18	45	2062.815	0.266	9.500
	46	2108.655	0.278	
	47	2154.495	0.290	
	48	2200.336	0.302	
	49	2246.176	0.315	
10:18-10:21	50	2292.016	0.328	10.500
	51	2337.857	0.341	
	52	2383.697	0.355	
	53	2429.537	0.368	
	54	2475.378	0.382	
10:21-10:23	55	2521.218	0.397	12.500
	56	2567.058	0.411	
	57	2612.899	0.426	

	58	2658.739	0.441	
	59	2704.579	0.457	
10:23-10:25	60	2750.420	0.472	14.250
	61	2796.260	0.488	
	62	2842.100	0.504	
	63	2887.941	0.521	
	64	2933.781	0.537	
10:26-10:28	65	2979.621	0.554	16.000
	66	3025.462	0.571	
	67	3071.302	0.589	
	68	3117.142	0.606	
	69	3162.983	0.624	
10:28-10:30	70	3208.823	0.643	18.000
	71	3254.663	0.661	
	72	3300.504	0.680	
	73	3346.344	0.699	
	74	3392.184	0.718	
10:30-10:32	75	3438.025	0.738	19.500
	76	3483.865	0.758	
	77	3529.705	0.778	
	78	3575.546	0.798	
	79	3621.386	0.819	
10:32-10:34	80	3667.226	0.839	22.000
	81	3713.067	0.860	
	82	3758.907	0.882	
10:34-10:36	83	3804.747	0.904	22.000

APPENDIX E

VACUUM RESPONSE TEST (40 SCFM)								
SAMPLE #	MP-1	MP-2	MP-3	MP-4	MP-5	Blower Eff. Temp	Blower Vac	Sample Time (5 min. intervals)
	(in. W.C.)	(in. W.C.)	(in. W.C.)	(in. W.C.)	(in. W.C.)	F	"WC	
BASELINE (before start)	-0.03	0	-0.015	-0.037	-0.047			
1	1.319	0.018	0.2	0.078	-0.062	100	8	11:15 - 11:20
2	1.318	0.033	0.182	0.055	-0.116	100	7	11:20 - 11:25
3	1.334	0.034	0.189	0.079	-0.041	100	7	11:25 - 11:30
4	1.395	0.027	0.2	0.08	-0.067	100	7	11:30 - 11:35
5	0.0735	0.033	0.21	0.156	0.077	100	7	11:35 - 11:40
6	0.551	0.035	0.225	0.151	0.058	100	7	11:40 - 11:45
7	0.614	0.036	0.181	0.117	0.014	100	7	11:45 - 11:50
8	0.394	0.035	0.203	0.133	0	100	7	11:50 - 11:55
9	0.331	0.03	0.191	0.117	0.026	100	7	11:55 - 12:00
10	0.329	0.032	0.191	0.119	0.018	100	7	12:00 - 12:05
11	0.358	0.033	0.201	0.118	0.008	100	7	12:05 - 12:10
12	0.342	0.042	0.193	0.128	0.021	100	7	12:10 - 12:15

VACUUM RESPONSE TEST (60 SCFM)								
SAMPLE #	MP-1	MP-2	MP-3	MP-4	MP-5	Blower Eff. Temp	Blower Vac	Sample Time (5 min. intervals)
	(in. W.C.)	(in. W.C.)	(in. W.C.)	(in. W.C.)	(in. W.C.)	F	"WC	
1	0.531	0.054	0.333	0.215	0.046	100	14	12:30 - 12:35
2	0.535	0.056	0.319	0.207	0.035	100	14	12:35 - 12:40
3	0.539	0.062	0.322	0.235	0.058	100	14	12:40 - 12:45
4	0.397	0.057	0.309	0.248	0.086	100	14	12:45 - 12:50
5	0.4	0.074	0.331	0.245	0.107	100	14	12:50 - 12:55
6	0.431	0.065	0.31	0.234	0.055	100	14	12:55 - 13:00
7	0.423	0.055	0.293	0.21	0	100	14	13:00 - 13:05
8	0.387	0.057	0.29	0.208	0.018	100	14	13:05 - 13:10
9	0.384	0.07	0.292	0.219	0.03	100	14	13:10 - 13:15
10	0.464	0.084	0.29	0.202	0.019	100	14	13:15 - 13:20
11	0.414	0.073	0.291	0.22	0.042	100	14	13:20 - 13:25
12	0.347	0.067	0.284	0.22	0.03	100	14	13:25 - 13:30

VACUUM RESPONSE TEST (80 SCFM)

SAMPLE #	MP-1	MP-2	MP-3	MP-4	MP-5	Blower Eff. Temp	Blower Vac	Sample Time (5 min. intervals)
	(in. W.C.)	(in. W.C.)	(in. W.C.)	(in. W.C.)	(in. W.C.)	F	"WC	
1	0.61	0.106	0.417	0.33	0.058	100	22	13:30 - 13:35
2	0.502	0.095	0.409	0.323	0.057	100	22	13:35 - 13:40
3	0.647	0.101	0.397	0.298	0.034	100	22	13:40 - 13:45
4	0.598	0.076	0.393	0.296	0.032	100	22	13:45 - 13:50
5	0.697	0.092	0.385	0.307	0.02	100	22	13:50 - 13:55
6	0.753	0.1	0.384	0.324	0.013	100	22	13:55 - 14:00
7	0.662	0.087	0.377	0.299	0.034	100	22	14:00 - 14:05
8	0.62	0.057	0.381	0.336	0.069	100	22	14:05 - 14:10
9	0.807	0.073	0.384	0.323	0.074	100	22	14:10 - 14:15
10	1.235	0.081	0.389	0.326	0.065	100	22	14:15 - 14:20
11	1.241	0.079	0.385	0.343	0.096	100	22	14:20 - 14:25
12	1.302	0.079	0.376	0.35	0.094	100	22	14:25 - 14:30

APPENDIX F



SSVM Pilot Pit with Expanded Metal Box.



Riser Pipe Installed and Surrounding Space Filled with Stone.



Plastic Sheetting to Contain Concrete. Re-bar.



New Floor Slab

APPENDIX G

**BAE, BUILDING 2, GREENLAWN, NEW YORK
SUB-SLAB VAPOR MITIGATION SYSTEM
DRAFT OPERATION AND MAINTENANCE MANUAL**

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APPENDICES

Appendix A	Product Manufacturer's Catalog-Cuts/Operational Maintenance Manuals
Appendix B	Operations Maintenance and Manual Forms
Appendix C	Trouble Shooting/Alarm Code List
Appendix D	Routine O&M Checklist
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