



TECHNOLOGIES, INC.

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**Ciabattoni Property**  
**ROCKLAND COUNTY, NEW YORK**

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**Site Management Plan**

**NYSDEC Site Number: C344068**

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# SITE MANAGEMENT PLAN

## 1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

### 1.1 INTRODUCTION

This document is required as an element of the remedial program at the Ciabattoni Property (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The site was investigated in accordance with Brownfield Cleanup Agreement (BCA) Index# W1-1105-07-05, Site # C344068, which was executed on July 5, 2007.

#### 1.1.1 GENERAL

Sembler/Treasure NY Joint Venture entered into a BCA, with the NYSDEC to investigate a 0.23 acre property located in the town of Stony Point, Rockland County, New York. This BCA, required the Remedial Party, Sembler/Treasure NY Joint Venture, to investigate, and as necessary remediate contaminated media at the site. A figure showing the site location and boundaries of this 0.23-acre site is provided in Figure # 1. The boundaries of the site are more fully described in the metes and bounds site description that is included in Appendix 1 titled Metes and Bounds within this document, and discussed in Section 1.2.1.

Following completion of the remedial work (soil excavation) during the UST removal (2003), the hydraulic lift and fuel dispenser island removals (2004) and the storm water management system installation (2007), some contamination was left in the subsurface at this site, which is hereafter referred to as "remaining contamination." This Site Management Plan (SMP) was prepared to manage remaining contamination at the site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. All reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

This SMP was prepared by A2L Technologies, Inc., on behalf of Sembler/Treasure NY Joint Venture, in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated November 2009, and the guidelines provided by NYSDEC. This SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the site.

### 1.1.2 PURPOSE

The site contains contamination left after completion of the various remedial actions. Engineering Controls (EC) and Institutional Controls (IC) have been incorporated into the site remedy to control exposure to remaining contamination during the use of the site to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Rockland County Clerk, will require compliance with this SMP and all ECs and ICs placed on the site. The ICs place restrictions on site use, and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. This SMP specifies the methods necessary to ensure compliance with all ECs and ICs required by the Environmental Easement for contamination that remains at the site. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

This SMP provides a detailed description of all procedures required to manage remaining contamination at the site after completion of the Remedial Action, including: (1) implementation and management of all Institutional Controls; (2) media monitoring; (3) operation and maintenance of all treatment, collection, containment, or recovery systems; (4) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports; and (5) defining criteria for termination of treatment system operations.

To address these needs, this SMP includes three plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; (3) an Operation and Maintenance Plan for implementation of remedial collection, containment, treatment, and recovery systems (including, where appropriate, preparation of an Operation and Maintenance Manual for complex systems).

This plan also includes a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the environmental easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the BCA Index # W1-1105-07-05; Site # C344068 for the site, and thereby subject to applicable penalties.

### **1.1.3 REVISIONS**

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. In accordance with the Environmental Easement for the site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

## **1.2 SITE BACKGROUND**

The Site incorporates approximately 0.23, acres, Rockland County Tax Lot# 20.15-1-17, of the currently developed parcels being utilized as a Provident Bank Branch Location. Ninety eight percent of the property is currently covered with impervious materials including concrete and asphalt parking. The specific location of the site is illustrated in Figure 1 of this document. Further, the metes and bounds description of the Site is provided in Appendix 1, and discussed in Section 1.2.1.

Previous investigative work at this site was conducted in accordance with the Remedial Investigation Work Plan (RIWP) approved by the NYSDEC and NYSDOH in May 13, 2008. The work consisted of installing six permanent groundwater monitoring wells. In addition, soil and groundwater samples were obtained and analyzed for contaminants of concern, primarily gasoline constituents and metals. The NYSDEC requested additional sampling analysis to include the Full Target Compound List + 30/Target Analyte List. Soil and ground water samples were collected for these analyses on October 6 & 7, 2009.

Soil samples were collected throughout the site at various depths during field efforts implementing the approved RIWP. The samples collected were submitted to a certified laboratory and analyzed for the following chemical constituents: New York State Spill Technology and Remediation Series Memo #1 (STARS) Volatile Organic Compounds via USEAP Method 8260B; lead and chromium using Method 6010 (mass analysis); hexavalent and trivalent chromium using analytical USEPA Method SW-846 7196A; Toxic Characteristic Leachate Procedure (TCLP) using USEPA Method 1311. Samples collected on October 6, 2009 were analyzed for the Full Target Compound List + 30/Target Analyte List. Soil sampling findings are discussed in Section 1.3 herein.

Groundwater monitoring wells were installed pursuant to the approved RIWP. Six wells were installed on or around the site to identify the depth and flow direction of groundwater. Groundwater was identified below a dense silty clay layer seventeen (17) to twenty-two (22) feet below land surface (BLS). Sub artesian hydrostatic conditions, water pressure contained within the aquifer causing elevated water levels, was observed throughout the site and adjacent areas

investigated. The groundwater levels were identified 8.86 to 18.14 feet below top of casing elevation (TOCE) during the sampling events.

Groundwater samples were collected and submitted to the laboratory for analysis using: NY STARS water via SW846 EPA Method 8260B for Volatile Organic (VOA); RCRA filtered metals using EPA Method 200.7. Most recently, samples were collected from MW-1 through MW-6 for analyses using the Full Compound List + 30/Target Analyte List on October 7, 2009.

Groundwater below the site has been impacted by concentrations of petroleum products. The depth to groundwater as monitored within the existing sub-artesian permanent wells was from eight (8) feet to approximately eighteen (18) feet across the site. Groundwater flow direction, as anticipated, is to the east with the bulk of the groundwater concentrations extending below South Liberty Drive. As the mass of contamination degrades and moves eastward, the impacts will diminish. Further, down gradient impacts will be subject to advective transport movement, and by the phenomena of dilution and diffusion, and will therefore degrade due to natural attenuation processes.

The groundwater laboratory analytical report did identify varying concentrations of gasoline range petroleum hydrocarbons within monitoring wells MW-3, MW-4 and MW-6. The condensed results are presented within Table 2 and the complete laboratory analytical reports are presented within Appendix 8.

Specific findings of the ground water investigation are included in Section 1.3 herein.

Potable wells within a quarter mile radius area were researched to determine if the observed contamination would affect drinking water quality at those locations. Helen Hayes Hospital, greater than one-eighth ( $\frac{1}{8}$ ) of a mile south, of the subject site was identified as having two potable wells servicing the on-site facilities. The wells were developed in the 1930's and meet current RCDOH and NYSDOH water quality standards. Due to the distance and equigradient location, under normal conditions, the observed contamination mass at the site will not affect the hospitals drinking water source. Gabriel Manufacturing located at 125 South Liberty Drive, approximately one-eighth ( $\frac{1}{8}$ ) of a mile north, was identified as containing a potable well drinking water well. The RCDOH indicated that the facility had an onsite well used for production and drinking water. Due to groundwater contamination at the Gabriel site, the use of the well has been discontinued and no longer monitored by the RCDOH. Due to the distance between the Ciabattoni site and the Gabriel well and equigradient location, under normal conditions, the observed contamination at the Ciabattoni site will not affect the Gabriel well.

Remediation at the subject site has been limited to several soil removal events associated with the decommissioning of the service station facility formerly present on the site and during the installation of the storm water retention tanks. In August 2003, approximately 600 tons of soils were removed from the UST tank farm and distribution area excavation area and 150 tons of soil removed from the waste oil UST excavation. In November 2004, the removal of two in-ground hydraulic lifts and the dispenser island commenced. Approximately 1,780 tons of petroleum contaminated soils were removed from both excavations. In May 2006 A2L Technologies, Inc. performed a Phase II Environmental Site Assessment in order to determine the status of the soil and ground water in the areas of the former excavations. The Phase II report is included as Appendix 9 herein. Soil samples were collected from borings installed in the former excavation areas. Borings that included soils analysis were SB-02 located in the former waste oil tank area (2003 excavation area), SB-04 located in the area of the former dispensers (2004 excavation area), and SB-06 located in the area of the former hydraulic lifts (2004 excavation area). Borings that did not include sample analysis, and their respective maximum OVA readings, included SB-01 (0 ppm) located in the former 2003 waste oil excavation, SB-03 (3.6 ppm at 15' bls) located in the former 2003 UST excavation area, and SB-05 (3.4 ppm at 9' bls) also located in the 2003 UST excavation area. These samples acted as post-excavation endpoint samples. The laboratory analysis of the collected samples revealed that most constituents were below recommended soil cleanup objectives, with the exception of chromium 25 mg/kg at SB-02, benzene (0.63 mg/kg), toluene (3.8 mg/kg), total xylenes (5.9 mg/kg), total VOCs (18.68 mg/kg), and chromium (34 mg/kg) at SB-04, and chromium (38 mg/kg) at SB-06. Refer to Appendix 9 for the Phase II report and Figure 7 for locations of the excavation areas and soil boring locations.

During the installation of the current storm water system, in November 2007, twenty (20) tons of petroleum contaminated soils (>50 ppm via PID) were removed from the center of the eastern property boundary along South Liberty Drive (adjacent to MW-6). Excessively contaminated soils were limited to the area from approximately two (2) feet to eight (8) feet BLS in the area adjacent to MW-6 (located in the Right of Way). This excavation was conducted without a NYSDEC-approved work plan. The area of excavation is shown on Figure 7. Each bucket of soil excavated was screened using an Organic Vapor Analyzer (OVA) equipped with a Photoionization Detector (PID). Soils that exhibited any reading on the OVA were placed into a dump truck for removal and from the site. Once all exhibiting soils were removed, the final bucket of soil was used as an endpoint sample. A sample was collected by the contractor and submitted to a laboratory for analysis. The sample was analyzed for TPH using Modified EPA

Method 8015. The analysis revealed no detectable concentration of TPH. The laboratory analysis report is included as Appendix 10.

Clean fill and crushed granite cobble was imported to the site to provide a stable subsurface for the construction of the existing bank facility and comprise at least one to two feet across the upper strata of the site, which is covered with engineering control covers as shown the site survey figure. The site development contractor acquired the fill from another site where they were performing development, the Nyack Library Expansion site.

No other identified assessment or remediation activities have been performed at the subject site.

### **1.2.1 SITE LOCATION AND DESCRIPTION**

The site is located in the town of Stony Point County of Rockland, New York and is identified as Section 020.015 Block 0001 Lot 017 on the Rockland Tax Map. The site is approximately 0.23-acres bounded by a property which is also owned by the Volunteer on which a portion of the bank building is located, followed by Filors Lane to the north, and South Liberty Drive to the east, see Figure 1. The subject site is further defined by its metes and bounds description, as described in Appendix 1:

### **1.2.2 SITE HISTORY**

The Site has historically operated as a gasoline service station with initial construction in 1953 and operated under various private ownerships and management until August 2003 when all underground storage tanks were removed and the station vacated. When the underground storage tanks (UST's) were removed, petroleum contamination within the soils was identified in the gasoline and waste oil tank farm areas. The former service station was located on the southeast side of the property. The building was a single story, two bay service building typical of the era constructed. The tank farm and associated dispensing equipment was located within the Site. During redevelopment of the site, to its current conditions, all buildings and improvements were demolished in accordance with applicable regulations. During an inspection by the Rockland County Health Department, it was requested that the hydraulic lifts and dispenser islands be removed. In November 2004, the removal of two in-ground hydraulic lifts and the dispenser island commenced. Approximately 1,780 tons of petroleum contaminated soils were removed from both excavations.

Subsequent investigations performed at the site by A2L Technologies, Inc include: January 2006 Phase I Environmental Site Assessment; April 2006 Phase II Environmental Site

Assessment; and December 2006 Supplemental Phase II Environmental Site Assessment. These reports were included within the initial BCP Application and subsequent RIWP filings.

### **1.2.3 GEOLOGIC CONDITIONS**

Based on subsurface borings installed during monitoring well installation, the site specific lithology was found to consist of varying degrees of silts, clay, fine and medium gravel, rock and boulders and brick to a depth of approximately eighteen to twenty- one feet BLS. A one to three foot reddish brown stiff silt layer was encountered at some boring locations, while clay was encountered at other boring locations from eighteen to twenty-two feet BLS. Then a medium to course grained sand and gravel was observed to the terminus of the borings, typically five to six feet below the clay and silt layer. Geologic cross sections across the site are illustrated in Figures 2A, 2B and 2C.

Groundwater was generally encountered beneath the clay and silt units layers previously identified. The water table was observed at depths between 8.86 to 18.14 feet below top of casing elevation (TOCE) during the sampling event. All of the monitoring wells were identified as having a sub artesian hydrostatic pressure. The ground surface elevation is approximately 121.0' above mean sea level. Refer to Figures 2A, 2B, and 2C for geological cross section diagrams. The groundwater flow direction was identified at the subject site flowing to the east-southeast as identified in Figure 3.

## **1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS**

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the site. The results of the RI are described in detail in the following reports:

Remedial Investigation Report, Ciabattoni Property, November 2009, A2L Technologies, Inc.

Generally, the RI determined that the residual soil contamination above the unrestricted SCO was limited to samples obtained from the range of 18' – 22' feet below land surface (at soil boring SB-4, sample taken at 18' below land surface) on the Site and within the right-of-way of South Liberty Drive (SB-6, sample taken at 18' below land surface), as shown on Figure 5. Note that on Figure 5, SB-4 and SB-6 correspond with the monitoring well locations MW-4 and MW-6, respectively.

Below is a summary of site conditions when the RI was performed in 2008, with additional soil and ground water sampling performed in October 2009:

## Soil

Soil sampling analytical data is presented in Table 1 of this report. Soil samples were collected at various depths across the site and analyzed in accordance with the approved RIWP Dated May 2007, and per the NYSDEC additional requirements of April 9, 2009. The relevant data is presented on a site plan in Figure 4 of this report. Note that the soil borings SB-1 through SB-6, installed May 12, 2008, are enumerated the same as their respective monitoring wells (ie: SB-1 = MW-1, SB-2 = MW-2, etc.)

The soil samples from borings SB-4 and SB-6 identified concentrations of ethylbenzene and naphthalene, above commercial restricted use soil cleanup objectives (SCO) as defined in Table 375-6.8(b). Concentrations of total xylenes (13 mg/kg at SB4), isopropylbenzene (0.75 mg/kg at SB4 and 0.31 at SB6), propylbenzene 2.4 mg/kg at SB4 and 0.85 mg/kg at SB6), 1,3,5 trimethylbenzene 4.5 mg/kg at SB4 and 1.4 mg/kg at SB6), 1,2,4 trimethylbenzene (1.4 mg/kg at SB4 and 4.6 mg/kg at SB6) and n-butylbenzene (0.94 mg/kg at SB4) were identified above detectable levels, but below the SCO for each constituent. The sampling data indicates the residual contamination above current unrestricted SCOs is limited to the former tank farm and dispenser area of the site around monitoring well MW-4, and extends eastward at a range of approximately eighteen (18) to twenty-two (22) feet below land surface. Observational data, acquired during the installation of the onsite stormwater retention system, indicates that subsurficial soil contamination extends beyond the eastern site boundary, onto the right-of-way of South Liberty Drive.

Clean fill and crushed granite cobble was imported to the site to provide a stable subsurface for the construction of the existing bank facility and comprise at least one to two feet across the upper strata of the site.

Soil sampling from ten (10) borings across the site was performed on October 6, 2009. Analyses of the collected soil samples revealed concentrations of several metals, none of which exceeded their respective Restricted Use Soil Cleanup Objectives. Refer to Table 1 for a tabularized view of the data, and Figure 9 for the boring locations.

## Groundwater

The groundwater laboratory analytical data identified varying concentrations of gasoline range petroleum hydrocarbons within monitoring wells MW-3, MW-4 and MW-6. The condensed results are presented within Table 2 and the BTEX groundwater concentration contour map is presented in Figure 5.



No contaminants of concern were identified within samples extracted from monitoring wells MW-1, MW-2 and MW-5.

Concentrations of isopropylbenzene (9.0µg/l), n-propylbenzene (9.0µg/l) and sec-butylbenzene (7.0µg/l) were identified in groundwater analyzed from MW-3. The concentrations observed were above Class GA fresh groundwater concentrations, for Isopropylbenzene, and sec-butylbenzene. The NYSDOH principal organic contaminant (POC) drinking water concentrations are exceeded for all contaminants observed. During the October 7, 2009 sampling event, only isopropylbenzene was identified above a reportable limit (laboratory's reportable limit of 5µg/l), at 180µg/l.

Monitoring well MW-4 contained concentrations of benzene (8.0µg/l), toluene (13.0µg/l), ethylbenzene (190.0µg/l), total xylenes (120.0µg/l), isopropylbenzene (44.0µg/l), n-Propylbenzene (110.0µg/l), 1,3,5 trimethylbenzene (46.0µg/l), 1,2,4 trimethylbenzene (31.0µg/l), sec-butylbenzene (18.0µg/l), p-isopropyltoluene (5.0µg/l), n-butylbenzene (16.0µg/l), and naphthalene (5.0µg/l). The concentrations observed were above Class GA fresh groundwater concentrations for benzene, toluene, ethylbenzene, total xylenes, Isopropylbenzene, 1,3,5 trimethylbenzene, 1,2,4 trimethylbenzene, p-isopropyltoluene, and n-butylbenzene. Additionally, all observed levels exceeded the NYSDOH POC drinking water concentrations. The sampling event on October 7, 2009, revealed reportable concentrations of benzene (2.6µg/l), ethylbenzene (2.1µg/l), and isopropylbenzene (29µg/l).

Monitoring well MW-6, located along the property boundary of the right of way with South Liberty Drive, contained the highest petroleum compound concentrations. Groundwater was found to contain: benzene (290.0µg/l), toluene (170.0µg/l), ethylbenzene (610.0µg/l), total xylenes (638.0µg/l), isopropylbenzene (110.0µg/l), n-Propylbenzene (200.0µg/l), 1,3,5 trimethylbenzene (290.0µg/l), 1,2,4 trimethylbenzene (320.0µg/l), sec-butylbenzene (16.0µg/l), p-isopropyltoluene (9.0µg/l), n-butylbenzene (30.0µg/l), and naphthalene (170.0µg/l). The concentrations observed were above Class GA fresh groundwater concentrations for benzene, toluene, ethylbenzene, total xylenes, Isopropylbenzene, 1,3,5 trimethylbenzene, 1,2,4 trimethylbenzene, p-isopropyltoluene, n-butylbenzene and naphthalene. Additionally, all observed levels exceeded the NYSDOH POC drinking water concentrations. The sampling event on October 7, 2009, at MW-6, revealed numerous constituents above reportable limits, as follows: benzene (8.5µg/l), cyclohexane (170µg/l) ethylbenzene (270µg/l), and isopropylbenzene (63µg/l), methylcyclohexane (97µg/l), total xylenes (354µg/l), toluene (17µg/l), 2-methylnaphthalene (19µg/l), and naphthalene (72µg/l).

The elevated concentrations of contaminants of concern were observed to be limited to the onsite monitoring well (MW-4) placed in the vicinity of the former tank farm/dispenser and the monitoring well (MW-6). Monitoring well MW-6 was placed in the immediately adjacent right-of-way of South Liberty Drive, east of monitoring well MW-4.

Groundwater monitoring in October 7, 2009 also revealed insignificant concentrations of numerous metals.

#### Soil Vapor Intrusion

The soil vapor investigation was performed due to the presence of petroleum contaminated soil and groundwater at the subject site and the potential for vapor intrusion into the structure. The building currently on the site was under construction at the time of the sampling. The exterior shell was completed with interior finish work being completed and was not formally occupied and under heating conditions. The investigation included the collection of sub-slab, interior ambient, exterior ambient and exterior sub-grade air samples at the site, in accordance with the RIWP. The air samples collected were analyzed by EPA Method TO-15 for Volatile Organic Compounds in air. Samples were extracted from two locations within the bank building (ambient and sub-slab), three locations at the perimeter of the exterior of the building (sub-grade), and one location upwind (ambient) from the subject site.

In order to evaluate the potential presence of vapor intrusion into the structure, the New York State Department of Health (Center for Environmental Health, Bureau of Environmental Exposure Investigation) document "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" was referenced for applicable guidelines. At the time of this report, New York State does not have any formalized standards, criteria or guidance values for concentrations of compounds in soil or sub-slab vapor aside from the levels established in the aforementioned document Table 3.3. Therefore, the results of each sampling location were evaluated with the consideration of several additional factors which include: nature and extent of contamination in all environmental media, factors that affect vapor migration and intrusion, completed or proposed remedial actions, source of volatile chemicals, and background of volatile chemicals in air.

The results of the sampling indicated concentrations of Isopropanol, Propene, Pentane, Acetone, and 2-Butenone at both interior ambient locations. The sub-slab samples indicated the same constituents found at the interior, but at one to four orders of magnitude lower than the interior concentrations.

Isopropanol was used as the tracer gas to determine the presence of a breach the concrete slab seal during sampling. The sub-slab concentration is negligible in comparison to the indoor

concentration. The sub-slab Isopropanol concentration was equal to the levels found at each of the exterior sub-grade points and ambient exterior upwind sample. Chloroethane was present at very low concentrations (7.1 & 1.4 ug/m3) within the sub-slab sample but not detected within the interior ambient sample. Based upon the results of the sampling, the reported air concentrations at the time were not indicative of a soil vapor intrusion concern. Additional mitigating factors supporting this conclusion include:

- 6 mil polyethylene vapor barrier was placed beneath the 6" thick continuously poured reinforced concrete slab, separating the subsurface from the interior space.

#### Underground Storage Tanks

In August 2003, the site operator, Majic Enterprises, had the three (3) 10,000 gallon gasoline underground storage tanks (UST's) and one (1) 550 gallon waste oil UST removed from the site. The three gasoline tanks and associated delivery systems were located on the Site. The waste oil UST was located to the southwest of the Site, adjacent to the former service station building.

### **1.4 SUMMARY OF REMEDIAL ACTIONS**

The soils at the site were remediated during separate events beginning with the original UST removal in 2003.

The following is a summary of the Remedial Actions performed at the site:

1. Excavation of excessively contaminated soil/fill during the 2003 UST removal event. Approximately 600 tons of soil was removed from the tank excavation area and 150 tons of soil was removed from the waste oil UST excavation.
2. In November 2004, the removal of two in-ground hydraulic lifts and the dispenser island commenced. Approximately 1,780 tons of petroleum contaminated soils were removed from both excavations.
3. During the installation of the current storm water system, in November 2007, twenty (20) tons of petroleum contaminated soils (>50 ppm via PID) were removed from the center of the eastern property boundary along South Liberty Drive (adjacent to MW-6). Excessively contaminated soils were removed from the area from approximately two (2) feet to eight (8) feet BLS.
4. Construction and maintenance of a soil cover system consisting of adding clean compatible fill to establish the foundation platform for the current bank building.

The paved parking areas were filled to approximately one and one-half feet (1.5') above previous grade with three to four inch crushed granite rock. Landscaped areas were backfilled with clean soils to prevent human exposure to remaining contaminated soil/fill remaining at the site;

5. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site;
6. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;

#### **1.4.1 REMOVAL OF CONTAMINATED MATERIALS FROM THE SITE**

The removal of contaminated materials from the site is described in Section 1.4 above. The soil cleanup objectives used for this site are prescribed in 6 NYCRR Part 375 Track 4 restricted use.

A list of the soil cleanup objectives (SCOs) for the primary contaminants of concern (COCs) and applicable land use for this site is provided in Table 8.

Remediation at the subject site has been limited to several soil removal events associated with the decommissioning of the service station facility formerly present on the site and during the installation of the storm water retention tanks. In August 2003, approximately 600 tons of soils were removed from the UST tank farm and distribution area excavation area and 150 tons of soil removed from the waste oil UST excavation. In November 2004, the removal of two in-ground hydraulic lifts and the dispenser island commenced. Approximately 1,780 tons of petroleum contaminated soils were removed from both excavations. In May 2006 A2L Technologies, Inc. performed a Phase II Environmental Site Assessment in order to determine the status of the soil and ground water in the areas of the former excavations. The Phase II report is included as Appendix 9 herein. Soil samples were collected from borings installed in the former excavation areas. Borings that included soils analysis were SB-02 located in the former waste oil tank area (2003 excavation area), SB-04 located in the area of the former UST and dispensers (2003 excavation area), and SB-06 located in the area of the former hydraulic lifts (2004 excavation area). These samples acted as post-excavation endpoint samples. The laboratory analysis of the collected samples revealed that most constituents were below recommended soil

cleanup objectives, with the exception of chromium 25 mg/kg at SB-02, benzene (0.63 mg/kg), toluene (3.8 mg/kg), total xylenes (5.9 mg/kg), total VOCs (18.68 mg/kg), and chromium (34 mg/kg) at SB-04, and chromium (38 mg/kg) at SB-06. Refer to Appendix 9 for the Phase II report and Figure 7 for locations of the excavation areas and soil boring locations. Actual specifics regarding excavation size are unclear.

During the installation of the current storm water system, in November 2007, twenty (20) tons of petroleum contaminated soils (>50 ppm via PID) were removed from the center of the eastern property boundary along South Liberty Drive (adjacent to MW-6). Excessively contaminated soils were limited to the area from approximately two (2) feet to eight (8) feet BLS in the area adjacent to MW-6 (located in the Right of Way). This excavation was conducted without a NYSDEC-approved work plan. The area of excavation is shown on Figure 7. Each bucket of soil excavated was screened using an Organic Vapor Analyzer (OVA) equipped with a Photoionization Detector (PID). Soils that exhibited any reading on the OVA were placed into a dump truck for removal and from the site. Once all exhibiting soils were removed, the final bucket of soil was used as an endpoint sample. A sample was collected by the contractor and submitted to a laboratory for analysis. The sample was analyzed for TPH using Modified EPA Method 8015. The analysis revealed no detectable concentration of TPH. The laboratory analysis report is included as Appendix 10. Actual specifics regarding excavation size are unclear.

A figure showing areas where excavation was performed is shown in Figure 7.

#### **1.4.2 TREATMENT SYSTEMS**

No long-term treatment systems were installed as part of the site remedy.

#### **1.4.3 Remaining Contamination**

The soil sampling data indicates that the residual contamination above current unrestricted SCO's is limited to the former tank farm and dispenser area of the site in an area between the existing MW-4 and MW-6, and extending eastward. The soils that exceed the unrestricted SCO's are limited to an area at a depth range of eight (8) to twenty-two (22) feet below land surface. Soil analysis data at SB-6, installed May 12, 2008 (completed as MW-6) indicate that subsurficial soil contamination may extend beyond the eastern site boundary, onto the right-of-way of South Liberty Drive (ethylbenzene and naphthalene exceeded unrestricted SCO's). The area of soils that exhibit results in excess of the unrestricted SCOs is depicted on Figure 4. Based on the surveyed elevations at the site, the upper zone of soils that exceed the unrestricted SCOs are located at an elevation of approximately 100' above mean sea level based

on the NVGD 1929. Figure 4 further shows the areas of the site that are in compliance with the unrestricted SCOs.

Table 1 summarizes the results of all soil contamination remaining at the site after completion of Remedial Action that exceed the Track 1 (unrestricted) SCOs.

## **2.0 ENGINEERING AND INSTITUTIONAL CONTROL PLAN**

### **2.1 INTRODUCTION**

#### **2.1.1 GENERAL**

The remedial goals included attainment of Track 4 Soil Cleanup Objectives (SCOs) for on-site soils for restricted commercial use. The Track 4 Restricted SCOs were approved by NYSDEC and are listed in Table 1. A summary of the remedial strategies and EC/ICs implemented at the site follows.

Since remaining contaminated soil and groundwater/ exists beneath the site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC.

#### **2.1.2 PURPOSE**

This plan provides:

- A description of all ICs on the site;
- The basic implementation and intended role of each IC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the features to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of the Excavation Work Plan for the

proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site;

- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the site remedy, as determined by the NYSDEC; and
- A description of the Reporting Requirements for these controls.

## **2.2 ENGINEERING CONTROLS**

### **2.2.1 ENGINEERING CONTROL SYSTEMS**

#### **2.2.1.1 Soil Cover**

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of 12 inches (minimum) of clean soil. The one foot thick cover consists of clean soil underlain by the subsurface soil. The top six inches of soil must be of sufficient quality to support vegetation. Non-vegetated areas (buildings, roadways, parking lots, etc) are covered with either a paving system or at least 6 inches thick or concrete at least 4 inches thick with a 15 mil polyethylene vapor barrier underlayment. The contractor did not place a demarcation layer under the clean fill. The Excavation Work Plan that appears in Appendix 4 outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of this SMP. Figure 10 shows the locations and delineation of the on-site cover system and a cross-section of covers.

#### **2.2.2 CRITERIA FOR COMPLETION**

Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in DER-10.

##### **2.2.2.1 Monitored Natural Attenuation**

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be

consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

### 2.3 INSTITUTIONAL CONTROLS

A series of Institutional Controls is required by the Decision Document and the Rededial Action Work Plan to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to Part 375, Track 4 commercial uses only. Adherence to these Institutional Controls on the site is required by the Environmental Easement and will be implemented under this Site Management Plan. These Institutional Controls are:

- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be operated and maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP;
- On-site environmental monitoring devices, including but not limited to, groundwater monitoring wells and soil vapor probes, must be protected and replaced as necessary to ensure the devices function in the manner specified in this SMP.

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted commercial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.



- The property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential, without additional testing and or remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material are prohibited unless they are conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any buildings developed on-site, and any impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

### **2.3.1 EXCAVATION WORK PLAN**

The site remedy allows for restricted commercial use. Any future intrusive work that will penetrate the soil cover, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system will be performed in compliance with the Excavation Work Plan (EWP) that is attached as Appendix 4 to this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the site. A sample HASP is attached as Appendix 2 to this SMP that is in current compliance with DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re-submitted with the notification provided in Section A-1 of the EWP. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 5).

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The site owner will ensure that site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

### **2.3.2 SOIL VAPOR INTRUSION EVALUATION**

Prior to the construction of any additional enclosed structure (eg: building) located over areas that contain remaining contamination and thus have the potential for soil vapor intrusion (SVI), (refer to Figures 4, 5 and 6), an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. The SVI evaluation will be performed as outlined in Section 1.3 of this document using the New York State Department of Health (Center for Environmental Health, Bureau of Environmental Exposure Investigation) document “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” as a reference for applicable guidelines. Alternatively, an SVI mitigation system will be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH “Guidance for Evaluating Vapor Intrusion in the State of New York”. Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) SVI sampling data will be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation. Validated SVI data will be transmitted to the property owner within 30 days of validation. If any indoor air test results exceed NYSDOH guidelines, relevant NYSDOH fact sheets will be provided to all tenants and occupants of the property within 15 days of receipt of validated data.

SVI sampling results, evaluations, and follow-up actions will also be summarized in the next Periodic Review Report.

## **2.4 INSPECTIONS AND NOTIFICATIONS**

### **2.4.1 INSPECTIONS**

Inspections of all remedial components installed at the site will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system;

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Periodic Review Reporting section of this plan (Section 5).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the site by a qualified environmental professional as determined by NYSDEC.

### **2.4.2 NOTIFICATIONS**

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Brownfield Cleanup Agreement (BCA), 6NYCRR Part 375, and/or Environmental Conservation Law.
- 15-day advance notice of any proposed non-emergency ground-intrusive activities pursuant to the Excavation Work Plan.
- Notice within 48 hours of any damage or defect to the foundations structures that reduces or has the potential to reduce the effectiveness of other Engineering Controls and likewise any action to be taken to mitigate the damage or defect.

- Notice within 48 hours of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the site, including a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the BCA, and all approved work plans and reports, including this SMP
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing.

## 2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

### 2.5.1 EMERGENCY TELEPHONE NUMBERS

In the event of any environmentally related situation or unplanned occurrence requiring assistance the Owner or Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to A2L Technologies. These emergency contact lists must be maintained in an easily accessible location at the site.

**Table 4: Emergency Contact Numbers**

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480 (3 day notice required for utility markout)
Poison Control Center:	(800) 222-1222

Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

**Table 5: Contact Numbers**

Sembler/Treasure NY Joint Venture	727.384.6000
A2L Technologies, Inc.	813-248-8558

\* Note: Contact numbers subject to change and should be updated as necessary

### **2.5.2 MAP AND DIRECTIONS TO NEAREST HEALTH FACILITY**

**Site Location:** 153 South Liberty Drive, Stony Point, NY

**Nearest Hospital Name:** Helen Hayes Hospital

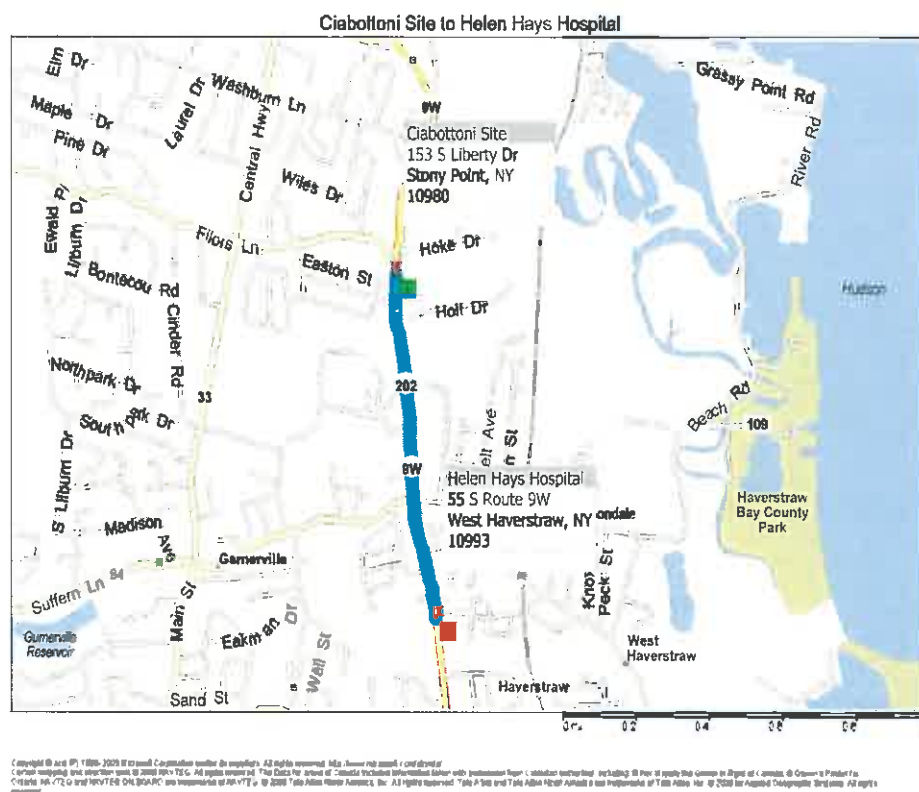
**Hospital Location:** 51-55 Route 9W, West Haverstraw, New York 10993

**Hospital Telephone:** 845-786-4000

**Directions to the Hospital:**

1. Take South Liberty Drive, south bound, approximately one half mile south of site.
2. **Total Distance:** 0.5 Miles      **Total Estimated Time:** 5 Minutes

**Map Showing Route from the site to the Hospital:**



### **2.5.3 RESPONSE PROCEDURES**

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found at the beginning of this Contingency Plan (Table 4). The list will also be posted prominently at the site and made readily available to all personnel at all times.

The current use of the site is primarily parking lot, with the western portion containing a single story masonry building set on a 6 inch monolithic cement slab with a six mil polyethylene vapor barrier. The occupied structure is operated as a retail banking office. Spills of hazardous materials are not anticipated. If the interior use changes, this plan will be amended to reflect these changes.

Evacuation plans for the facility are provided by the employing entity. Provident Bank, the current lease holder, is directly responsible for OSHA compliance and employee safety at their facility.

## **3.0 SITE MONITORING PLAN**

### **3.1 INTRODUCTION**

#### **3.1.1 GENERAL**

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the site, the soil cover system, and all affected site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan. This Monitoring Plan may only be revised with the approval of NYSDEC.

#### **3.1.2 PURPOSE AND SCHEDULE**

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria.
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Consistent with the November 4, 2009 Draft DER-10, annual monitoring of the performance of the remedy and overall reduction in contamination on-site and off-site will be conducted for the first two (2) years. The frequency thereafter will be determined by NYSDEC. Trends in contaminant levels in soil, and/or groundwater in the affected areas, will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. Monitoring programs are summarized in Table 6 and outlined in detail in Sections 3.2 and 3.3 below.

**Table 6: Monitoring/Inspection Schedule**

<b>Monitoring:</b>	<b>Frequency*</b>	<b>Matrix</b>	<b>Analysis</b>
	Once Per Year	Groundwater, (MW-1, MW-2, MW-3, MW-4, MW-5, MW - 6)	USEPA 8260 Full VOV USEPA 8270 Semi-VOC

\* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

### **3.2 SOIL COVER SYSTEM MONITORING**

The soil cover system monitoring (SCSM) at the site is comprised of the visual inspection of asphalt covered roads, concrete covered sidewalks, a clean soil cover in landscaped areas and building slabs. The SCSM has been employed to mitigate potential exposure to humans and potential off-site migration (mobilized by precipitation run-off and infiltration of subsurface impacts).

The soil cover system will be inspected upon completion of the construction activities and on an annual schedule, coinciding with proposed groundwater monitoring schedule. Unscheduled inspections and/or sampling may take place when a suspected failure of the soil



cover system has been reported or an emergency occurs that is deemed likely to affect the operation of the system.

A visual inspection of the complete system will be conducted during the monitoring event. Soil cover system components to be monitored include, but are not limited to, the following.

- integrity of asphalt covered parking and access ways
- integrity of concrete sidewalks
- integrity of concrete building slabs
- integrity of clean soil cover

A complete list of components to be checked in provided in the Inspection Checklist, presented in Appendix 3. If any of the components of the soil cover system are not functioning as designed, maintenance and/or repairs will be conducted/implemented as per Section 4 Operation and Maintenance Plan

### **3.3 MEDIA MONITORING PROGRAM**

#### **3.3.1 GROUNDWATER MONITORING**

Groundwater monitoring will be performed on an annual basis to assess the concentrations of known contaminants within the groundwater on and downgradient of the site.

The network of monitoring wells has been installed to monitor both up-gradient and down-gradient groundwater conditions at the site. The network of on-site and off-site wells was designed prior to site construction and implementation of the Remedial Investigation Work Plan, in 2008. The location of the groundwater monitoring points is presented in Figure 8 within this report.

The monitoring wells have been installed to provide a sufficient pattern clearly identifying the west, north and south clean zones for this site. The groundwater sampling points provide adequate monitoring of the sub artesian aquifer confined beneath the site.

The current groundwater wells (MW-1 through MW-6) were installed using a rotary auger, with clean 2" diameter PVC piping placed into the borehole upon reaching the desired depth of approximately 24 - 29 feet below land surface. The geologic conditions observed at the site revealed that the upper seventeen (17) to twenty (20) feet below ground surface consisted of unconsolidated fill comprised of boulders, brick, clay, silt, and gravel. It was determined that unconfined surficial aquifer conditions did not exist beneath the subject site. A compact clay lens was found to exist at approximate 20 – 24 feet below land surface. This clay lens seemed to form a confined sub artesian aquifer beneath the subject site. The screened interval, consisting of 0.01"

slotted screen, of the well was placed within the top five (5) feet of this sub artesian aquifer below the confining clay lens. The interstitial space was filled with 20/30 silica clean sand to one foot above the screen, followed by the placement of a one foot thick bentonite seal. The remaining annulus was grouted to the surface with a slurry of Portland cement and bentonite clay, where a steel manhole vault was installed in concrete. [Monitoring well construction logs are included in Appendix 6.](#)

[The sampling frequency may be modified with the approval of the NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.](#)

[Deliverables for the groundwater monitoring program are specified below.](#)

#### [3.3.1.1 Sampling Protocol](#)

[All monitoring well sampling activities will be recorded in a field book, and a groundwater-sampling log will presented as shown in Appendix 6. Other observations \(e.g., well integrity, etc.\) will be noted on the well sampling log. The well sampling log will serve as the inspection form for the groundwater monitoring well network.](#)

Well gauging will be performed during each event prior to purging of the well. All measurements will be performed using an electronic conductivity probe and measure to a one hundredth of an inch (0.01”).

Well purging will be performed by suitable method to meet the USEPA Low Flow Sampling protocol in force at the time of sampling. Sampling will be consistent with the comprehensive QAPP attached as Appendix 7.

All laboratory analysis will be performed by laboratories certified in accordance with NYSDOH ELAP program, and all laboratory deliverables will conform to the requirements for Category B deliverables under the Department’s Analytical Services Protocol (ASP).

The selected analytical methodology for groundwater presented above (USEPA Method 8260b), presents a representative coverage for compounds of concern identified at the site. The baseline post-remediation groundwater quality conditions and the wells to be sampled according to the monitoring schedule are as follows:

WELLS TO BE MONITORED	ANALYTE	BASELINE CONCENTRATION (ug/l)	MONITORING PARAMETERS
MW-3	Isopropylbenzene	9.0	Volatile Organic Aromatics (VOA) EPA Method 8260b  Semi-Volatile Organic Compounds (SVOC) EPA Method 8270
	n-propylbenzene	9.0	
	sec-butylbenzene	7.0	
MW-4	benzene	8.0	Volatile Organic Aromatics (VOA) EPA Method 8260b  Semi-Volatile Organic Compounds (SVOC) EPA Method 8270
	toluene	13.0	
	ethylbenzene	190.0	
	total xylenes	120.0	
	isopropylbenzene	44.0	
	1,3,5 trimethylbenzene	46.0	
	1,2,4 trimethylbenzene	31.0	
	p-isopropyltoluene	5.0	
	n-butylbenzene	16.0	
MW-6	benzene	290.0	Volatile Organic Aromatics (VOA) EPA Method 8260b  Semi-Volatile Organic Compounds (SVOC) EPA Method 8270
	toluene	170.0	
	ethylbenzene	610.0	
	total xylenes	638.0	
	isopropylbenzene	110.0	
	1,3,5 trimethylbenzene	290.0	
	1,2,4 trimethylbenzene	9.0	
	p-isopropylbenzene	30.0	
	n-butylbenzene	170.0	
	naphthalene	320.0	

Note that only those analytes that exceeded the allowable limits during the May 2008 baseline post-remediation sampling event are listed on the table.

#### 3.3.1.2 Monitoring Well Repairs, Replacement and Decommissioning

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent periodic report. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by the NYSDEC.

### 3.4 SITE-WIDE INSPECTION

Site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form will be completed (Appendix 3J). The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;

- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that site records are up to date.

### **3.5 MONITORING QUALITY ASSURANCE/QUALITY CONTROL**

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the site (Appendix 7). Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:
  - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
  - Sample holding times will be in accordance with the NYSDEC ASP requirements.
  - Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody;
- Calibration Procedures:
  - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
  - The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Analytical Procedures;
- Preparation of a Data Usability Summary Report (DUSR), which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.
- Internal QC and Checks;
- QA Performance and System Audits;

- Preventative Maintenance Procedures and Schedules;
- Corrective Action Measures.

### 3.6 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file on-site. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be (1) subject to approval by NYSDEC and (2) submitted at the time of the Periodic Review Report, as specified in the Reporting Plan of this SMP.

All monitoring results will be reported to NYSDEC on a periodic basis in the Periodic Review Report. A letter report will also be prepared, subsequent to each sampling event. The report (or letter) will include, at a minimum:

- Date of event;
- Personnel conducting sampling;
- Description of the activities performed;
- Type of samples collected (e.g., ~~sub-slab vapor, indoor air, outdoor air~~ groundwater, soil, etc);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and
- A determination as to whether groundwater conditions have changed since the last reporting event.

Data will be reported in hard copy or digital format as determined by NYSDEC. A summary of the monitoring program deliverables are summarized in Table 7 below.

**Table 7: Schedule of Monitoring/Inspection Reports**

<b>Task</b>	
<b>Annual Monitoring</b>	<b>Within 45 days of the receipt of laboratory data</b>

\* The frequency of events will be conducted as specified until otherwise approved by NYSDEC

## **4.0 OPERATION AND MAINTENANCE**

### **4.1 INTRODUCTION**

The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

## **5.0 INSPECTIONS, REPORTING, AND CERTIFICATIONS**

### **5.1 SITE INSPECTIONS**

#### **5.1.1 INSPECTION FREQUENCY**

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan of this SMP. At a minimum, a site-wide inspection will be conducted on an annual basis. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

#### **5.1.2 INSPECTION FORMS, SAMPLING DATA, AND MAINTENANCE REPORTS**

All inspections and monitoring events will be recorded on the appropriate forms for their respective system which are contained in Appendix 3. Additionally, a general site-wide inspection form will be completed during the site-wide inspection (see Appendix 3). These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the site during the reporting period will be provided in electronic format in the Periodic Review Report.

### **5.1.3 EVALUATION OF RECORDS AND REPORTING**

The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items,
- The site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP and Decision Document.

## **5.2 CERTIFICATION OF INSTITUTIONAL AND ENGINEERING CONTROLS**

After the last inspection of the reporting period, a qualified environmental professional will prepare the following certification:

“For each engineering and institutional control identified for the site, I certify that all of the following statements are true:

- (a) the institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the DER;
- (b) nothing has occurred that would impair the ability of such control to protect the public health and environment;
- (c) nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- (d) access to the site will continue to be provided to the DER to evaluate the remedy, including access to evaluate continued maintenance of this control;
- (e) if a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for their intended purpose under the document;
- (f) no new information has come to the remedial party’s (site owner’s) attention, including groundwater monitoring data from wells located at the site boundary, if



any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid.

‘I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I [print name] of [print business address], am certifying as [Owner or Owner’s Designated Site Representative] for the site named in the Site Details section of this form.’

In addition, since the NYSDEC has determined that the site does not represent a significant threat to public health or the environment, and since contaminants in the groundwater at the site boundary contravene drinking water standards, every five years the following statement (g) will be added to the certification:

(g) the assumptions made in the qualitative exposure assessment remain valid.’

The signed certifications will be included in the Periodic Review Report described below.

### 5.3 PERIODIC REVIEW REPORT

A Periodic Review Report, including a synopsis of annual reports during the review period, will be submitted to the Department every year, beginning eighteen months after the Certificate of Completion is issued. In the event that the site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the site described in Appendix 1 (Metes and Bounds). The report will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ICs required by the remedy for the site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor), which include a listing of all compounds analyzed, along with

the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;

- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A site evaluation, which includes the following:
  - The compliance of the remedy with the requirements of the site-specific RAWP, ROD or Decision Document;
  - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
  - Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
  - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
  - The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in hard-copy format, to the NYSDEC Central Office and Regional Office in which the site is located, and in electronic format to NYSDEC Central Office, Regional Office and the NYSDOH Bureau of Environmental Exposure Investigation.

#### **5.4 CORRECTIVE MEASURES PLAN**

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measures plan until it is approved by the NYSDEC.

## Tables

**TABLE 1**  
**SOIL ANALYTICAL SUMMARY - VOCs**  
**CIABATTONI I.D.#C344088**  
**STONY POINT, NY**

Location	Sample Date	Depth	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m+p-Xylene mg/kg	o-Xylene mg/kg	Isopropylbenzene mg/kg	n-Butylbenzene mg/kg	tert-Butylbenzene mg/kg	n-Propylbenzene mg/kg	1,3,5-Trimethylbenzene mg/kg	1,2,4-Trimethylbenzene mg/kg	1,1,1-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,2-Dichloroethane mg/kg	1,1-Dichloroethane mg/kg
SB1-8	5/12/2008	0' bs	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SB2-18	5/12/2008	18' bs	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SB3-24	5/12/2008	24' bs	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SB4-18	5/12/2008	10' bs	U	U	U	4.4	13	U	0.75	0.94	U	2.4	4.5	14	U	U	U	U
SB5-9	5/12/2008	8' bs	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SB6-18	5/12/2008	18' bs	U	U	U	1.1	3.2	0.51	0.31	U	0.85	1.4	1.4	4.8	U	U	U	U
Residential Use Self Cleanup Objective - Commercial			500	44	500	390	500 Total	2.3	500	500	500	500	190	190	500	240	30	500

Notes: U = Below Detection Limit  
bs = below land surface

TABLE 1  
SOIL ANALYTICAL SUMMARY - VOCs  
CIABATTONI I.D.#C344068  
STONY POINT, NY

Sample			1,2-		Cis-1,2-		trans-1,2-		1,3-Dichloro-		1,4-Dichloro-		1,4-Dioxan		Acetone		Carbon Tetrachloride		Chloro-benzene		Chloroform		Hexachloro-benzene		Methyl Ethyl Ketone		Methylene Chloride		Tetra-chloroethene		Trichloro-ethene		p-Isopropyl-toluene		Vinyl Chloride	
Location	Date	Depth	Dichlorobenzene	mg/kg	Dichloroethene	mg/kg	Dichloroethene	mg/kg	benzene	mg/kg	benzene	mg/kg	Dioxan	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
S81-6	5/12/2008	6" bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S82-18	5/12/2008	18" bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S83-24	5/12/2008	24" bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S84-18	5/12/2008	18" bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S85-6	5/12/2008	6" bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S86-18	5/12/2008	18" bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
Restricted Use Soil Cleanup Objectives - Commercial			500		500		500		280		130		130		500		22		500		350		6		500		500		150		200		0.11		13	

Notes: U = Below Detection Limit  
bls = below land surface

TABLE 1  
SOIL ANALYTICAL SUMMARY - VOCs  
CIABATTONI I.D.#C344068  
STONY POINT, NY

Sample Location	Date	Depth	2-		Acetone	Benzene	Cyclo- hexane	Ethyl- benzene	Isopropyl- benzene	Methylcyclo- hexane	Methylene chloride	m-Xylene & p-Xylene	o-Xylene	Toluene	1,1,1- Trichloroethane	1,1- Dichloroethane	1,2- Dichloroethane	1,1- Dichloroethane	1,2- Dichlorobenzene
			Butane	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
S-1	10/6/2009	2' bis	U	0.012 (J)	U	U	U	U	U	U	0.0018 (J)	U	U	U	U	U	U	U	U
S-2	10/6/2009	11' bis	U	U	U	U	U	U	U	U	0.002 (J)	U	U	U	U	U	U	U	U
S-3	10/6/2009	2' bis	U	U	U	U	U	U	U	U	0.0017 (J)	U	U	U	U	U	U	U	U
S-4	10/6/2009	17' bis	U	0.120 (J)	U	U	U	0.029	0.140	0.110	0.011 (J)	0.0072 (J)	U	U	U	U	U	U	U
S-5	10/6/2009	2' bis	U	U	U	0.0021 (J)	U	U	0.033	0.061	0.0031 (J)	0.150	0.0085	0.0034 (J)	U	U	U	U	U
S-6	10/6/2009	6' bis	U	U	U	U	U	U	U	U	0.0017 (J)	U	U	U	U	U	U	U	U
S-7	10/6/2009	DUP 5-4	0.0082 (J)	0.039	0.0018 (J)	U	0.140	0.033	0.033	0.061	0.0031 (J)	0.150	0.0085	0.0034 (J)	U	U	U	U	U
S-8	10/6/2009	2' bis	U	U	U	U	U	U	U	U	0.0017 (J)	U	U	U	U	U	U	U	U
S-9	10/6/2009	10' bis	U	U	U	0.0013 (J)	U	U	U	0.0018 (J)	U	U	U	U	U	U	U	U	U
S-10	10/6/2009	2' bis	U	U	U	U	U	U	U	U	0.0015 (J)	U	U	U	U	U	U	U	U
Restricted Use Soil Cleanup Objectives - Commercial			—	500	44	—	390	2.3	—	—	500	500 Total	500	500	240	30	500	500	500

Notes: J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

D10 = Dilution required due to sample color.

U = Below Detection Limits

UU = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample.

bis = below land surface

TABLE 1  
SOIL ANALYTICAL SUMMARY - VOCs  
CIABATTONI I.D.#C344068  
STONY POINT, NY

Location	Sample Date	Depth	Cis-1,2- Dichloroethene		Trans-1,2- Dichloroethene		1,3- Dichlorobenzene		1,4- Dichlorobenzene		1,4- Dioxin		Acetone		Carbon Tetrachloride		Chlorobenzene		Chloroform		Hexa- Chlorobenzene		Methyl Ethyl Ketone		Methylene Chloride		Tetra- chloroethene		Tri- chloroethene		Vinyl Chloride	
			mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U
S-1	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-2	10/6/2009	11' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-3	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-4	10/6/2009	17' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-5	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-6	10/6/2009	6' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-7	10/6/2009	DUP 5-4	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-8	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-9	10/6/2009	10' bis	U		U		U		U		U		U		U		U		U		U		U		U		U		U		U	
S-10	10/6/2009	2' bis	UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ	
Restricted Use Soil Cleanup Objectives - Commercial			500		500		280		130		130		500		22		500		350		8		500		500		150		200		13	

Notes: U = Below Detection Limits

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample.

bs = below field surface

**TABLE 1**  
**SOIL ANALYTICAL SUMMARY - SVOCs**  
**CIABATTONI I.D.#C344068**  
**STONY POINT, NY**

Sample Location	Sample Date	Depth	Naphthalene mg/kg	2-Methyl- naphthalene mg/kg	Benzof(a) anthracene mg/kg	Benzof(e) pyrene mg/kg	Benzof(b) fluoranthene mg/kg	Benzof(g,h,i) perylene mg/kg	Benzof(k) fluoranthene mg/kg	Chrysene mg/kg	Fluoranthene mg/kg	Indeno(1,2,3-cd) pyrene mg/kg	Phenanthrene mg/kg
S-1	5/12/2008	6' b/s	U	U	0.021 (J)	0.018 (J)	0.021 (J)	0.014 (J)	0.012 (J)	0.021 (J)	0.035 (J)	0.012 (J)	0.016 (J)
	10/6/2009	2' b/s											
S-2	5/12/2008	18' b/s	U	U	U	U	U	U	U	U	U	U	U
	10/6/2009	11' b/s											
S-3	5/12/2008	24' b/s	U	U	0.011 (J)	U	U	U	U	U	0.010 (J)	U	U
	10/6/2009	2' b/s											
S-4	5/12/2008	18' b/s	1.5	U	U	U	U	U	U	U	U	U	U
	10/6/2009	17' b/s											
S-5	5/12/2008	8' b/s	U	U	0.087 (D10,J)	0.081 (D10,J)	0.078 (D10,J)	0.043 (D10,J)	U	0.054 (D10,J)	U	U	0.041 (D10,J)
	10/6/2009	2' b/s											
S-6	5/12/2008	18' b/s	0.38	U	U	U	U	U	U	U	U	U	U
	10/6/2009	6' b/s											
S-7	10/6/2009	DUPS-1		0.310 (D10,J)	0.150 (D10,J)	0.100 (D10,J)	0.120 (D10,J)	U	U	0.100 (D10,J)	0.160 (D10,J)	U	0.088 (D10,J)
S-8	10/6/2009	2' b/s		U	0.120 (D10,J)	U	0.100 (D10,J)	U	U	U	U	U	U
S-9	10/6/2009	10' b/s		U	U	U	U	U	U	U	U	U	U
S-10	10/6/2009	2' b/s		UJ	UJ	UJ	UJ	0.075 (D10,J)	UJ	UJ	UJ	UJ	UJ
Restricted Use Soil Cleanup Objectives - Commercial			500		5.6	1	5.6	500	56.0	56	500	5.6	500

Notes: J = This analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample

D10 = Dilution required due to sample color

U = Below Detection Limits

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample

b/s = below land surface



**TABLE 1**  
**SOIL ANALYTICAL SUMMARY - SVOCs**  
**CIABATTONI I.D.#C344068**  
**STONY POINT, NY**

Location	Sample Date	Depth	Acenaphthene		Acenaphthalene		Anthracene		Dibenz(a,h)anthracene		Fluorene		m-Cresol		o-Cresol		p-Cresol		Penta-chlorophenol		Phenol		Pyrene	
			mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U	mg/kg	U
S-1	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		0.038 (J)	
S-2	10/6/2009	11' bis	U		U		U		U		U		U		U		U		U		U		U	
S-3	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		0.10 (J)	
S-4	10/6/2009	17' bis	U		U		U		U		U		U		U		U		U		U		U	
S-5	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		0.083 (D10,J)	
S-6	10/6/2009	6' bis	U		U		U		U		U		U		U		U		U		U		U	
S-7	10/6/2009	DUP5-4	U		U		U		U		U		U		U		U		U		U		0.180 (D10,J)	
S-8	10/6/2009	2' bis	U		U		U		U		U		U		U		U		U		U		0.110 (D10,J)	
S-9	10/6/2009	10' bis	U		U		U		U		U		U		U		U		U		U		U	
S-10	10/6/2009	2' bis	UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ		UJ	
Restricted Use Soil Cleanup Objectives - Commercial			500		500		500		0.56		500		500		500		500		6.7		500		500	

Notes: U = Below Detection Limits

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample.

bis = below/land surface

**TABLE 1**  
**SOIL ANALYTICAL SUMMARY - METALS**  
**CIABATTONI I.D.#C344068**  
**STONY POINT, NY**

Sample			Trivalent			Hexavalent			TCLP Non-Volatile							
Location	Date	Depth	Chromium mg/kg	Chromium mg/kg	Lead mg/kg	Moisture mg/kg	Chromium mg/kg	Mercury mg/L	Arsenic mg/L	Selenium mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Silver mg/L	
SB1-6	5/12/2008	6' bis	35.6	35.6	8.15	18.3	U	U	U	U	0.517	U	U	U	U	
SB2-18	5/12/2008	18' bis	31.5	32.1	6.94	16.2	U	U	U	U	0.304	U	U	U	U	
SB3-24	5/12/2008	24' bis	21	21.3	5.62	12.4	U	U	U	U	0.613	U	U	U	U	
SB4-18	5/12/2008	18' bis	23.5	23.6	21.6	16.9	U	U	U	U	0.580	U	U	U	U	
SB5-8	5/12/2008	8' bis	18.6	18.9	19.7	10.1	U	U	U	U	0.317	U	U	U	U	
SB6-18	5/12/2008	18' bis	15.2	15.4	6.74	9.0	U	U	U	U	0.529	U	U	U	U	
SB7-2	5/12/2008	2' bis	14.3	14.3	6.73	12.1	U	NS	NS	NS	NS	NS	NS	NS	NS	
SB8-1	5/12/2008	1' bis	14.7	14.9	8.61	18.4	U	NS	NS	NS	NS	NS	NS	NS	NS	
SB9-1	5/12/2008	1' bis	14	14.1	9.43	10.1	U	NS	NS	NS	NS	NS	NS	NS	NS	
SB10-1	5/12/2008	1' bis	21.2	21.4	244	15.2	UJ	NS	NS	NS	NS	NS	NS	NS	NS	
SB11-1	5/12/2008	1' bis	16.4	16.7	18.7	11.6	U	NS	NS	NS	NS	NS	NS	NS	NS	
Restricted Use Soil Cleanup Objectives - Commercial			1,500	1,800	1,000	n/a	400	2.8	16	1,500	400	9.3	1,900	1,000	1,500	

Notes U = Below Detection Limits

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample

NS = Not Sampled

bis = below land surface

**TABLE 1**  
**SOIL ANALYTICAL SUMMARY - METALS**  
**CIABATTONI I.D.#C344068**  
**STONY POINT, NY**

Location	Sample Date	Depth	Aluminum mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Cobalt mg/kg	Copper mg/kg	Cyanide mg/kg	Iron mg/kg	Lead mg/kg
S-1	10/6/2009	2' bis	10100	4.3 (B)	61.8	0.455 (B)	0.152 (J)	3030	10.9	8.05	20.2	U	19300	7.6
S-2	10/6/2009	1' bis	9250	3.5 (B)	52.6	0.423 (B)	0.077 (J)	1490	18.5	7.14	17.0	U	18600	5.7
S-3	10/6/2009	2' bis	9490	3.6 (B)	66.4	0.436 (B)	0.125 (J)	3150	9.02	6.84	17.9	U	17200	6.1
S-4	10/6/2009	17' bis	6860	4.1 (B)	54.5	0.334 (B)	0.101 (J)	1970 (J)	7.69	6.86	16.0 (J)	U	15300 (J)	5.5 (J)
S-5	10/6/2009	2' bis	9150	3.1 (B)	46.3	0.436 (B)	0.169 (J)	36300	9.73	6.84	12.4	U	15800	8.1
S-6	10/6/2009	6' bis	11900	2.9 (B)	61.0	0.496 (B)	0.088 (J)	1520	13.7	7.28	19.0	U	18900	5.2
S-7	10/6/2009	DUP 5-4	9510	3.0 (B)	46.2	0.382 (B)	0.121 (J)	6330	8.32	8.93	38.8	U	24100	12.3
S-8	10/6/2009	2' bis	9460	3.9 (B)	55.4	0.419 (B)	0.169 (J)	10700 (J)	12.0	7.90	20.0 (J)	U	18700 (J)	7.0 (J)
S-9	10/6/2009	10' bis	9060	3.5 (B)	52.2	0.378 (B)	0.138 (J)	4040	12.4	7.68	29.3	U	18800	14.5
S-10	10/6/2009	2' bis	7140	2.8 (B)	54.1	0.308 (B)	0.091 (J)	1670	10.0	5.24	12.3	UU	14300	48.2
Restricted Use Soil Cleanup Objectives - Commercial			—	16	400	590	9.3	—	1,900	—	270	27	—	1,000

Notes: B = Analyte was detected in the associated Method Blank.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Below Detection Limits

UU = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample.

bis = below land surface

**TABLE 1**  
**SOIL ANALYTICAL SUMMARY - METALS**  
**CIABATTONI I.D.#C344068**  
**STONY POINT, NY**

Location	Sample Date	Depth	Magnesium mg/kg	Manganese mg/kg	Mercury mg/kg	Nickel mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Vanadium mg/kg	Zinc mg/kg	Mercury mg/kg	Thallium mg/kg
S-1	10/6/2009	2' bis	4050 (B)	4332 (B1,B)	U	14.3	1460	U	U	80.0 (J)	10.9	47.1 (B)	0.0101 (J)	NS
S-2	10/6/2009	11' bis	2990 (B)	414 (B1,B)	U	12.8	1460	U	U	78.2 (J)	16.8	38.8 (B)	NS	U
S-3	10/6/2009	2' bis	3590 (B)	420 (B1,B)	U	11.3	1350	U	U	221	17.4	37.9 (B)	NS	NS
S-4	10/6/2009	17' bis	2790 (B,J)	210 (B1,B,J)	U	13.4	1260	U	U	144 (J)	14.0 (J)	39.7 (B)	NS	U
S-5	10/6/2009	2' bis	22200 (B)	493 (B1,B)	U	12.5	1190	U	U	127 (J)	16.0	62.7 (B)	0.0090 (J)	NS
S-6	10/6/2009	8' bis	3450 (B)	330 (B1,B)	U	13.5	1480	U	U	201	22.2	36.2 (B)	0.0101 (J)	NS
S-7	10/6/2009	DUP 5-4	5550 (B)	320 (B1,B)	U	11.8	1170	U	U	176	31.8	51.6 (B)	0.0112 (J)	NS
S-8	10/6/2009	2' bis	4450 (B,J)	700 (B1,B,J)	U	16.8	1320	U	U	120 (J)	17.2 (J)	45.4 (B)	0.0132 (J)	U
S-9	10/6/2009	10' bis	4280 (B)	280 (B1,B)	U	13.8	1230	U	U	287	18.8	49.9 (B)	0.0097 (J)	NS
S-10	10/6/2009	2' bis	2730 (B)	236 (B1,B)	UJ	9.69	1160	UJ	UJ	67.9 (J)	14.9	30.0 (B)	0.0449	NS
Restricted Use Soil Cleanup Objectives - Commercial			—	10,000	2.8	310	—	1,500	1,500	—	—	10,000	2.8	—

Notes B = Analyte was detected in the associated Method Blank.

B1 = Analyte was detected in the associated Method Blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.

J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.

U = Below Detection Limits

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample.

NS = Not sampled

bis = below land surface

TABLE 1  
SOIL ANALYTICAL SUMMARY - PESTICIDES/PCBS  
CIABATTONI I.D.#C344068  
STONY POINT, NY

Sample Date      Depth			Organochlorine Pesticides																Polychlorinated Biphenyls			
			4,4'-DDD ug/kg	4,4'-DDE ug/kg	4,4'-DDT ug/kg	Aldrin ug/kg	alpha- BHC ug/kg	beta- BHC ug/kg	delta- BHC ug/kg	gamma- BHC ug/kg	Dieldrin ug/kg	Endrin ketone ug/kg	Chlordane ug/kg	gamma- Chlordane ug/kg	Endosulfan II ug/kg	Endosulfan Sulfate ug/kg	Heptachlor ug/kg	2,4,5 TP Acid ug/kg	Dibenzofuran ug/kg	Arochlor 1248 ug/kg	Arochlor 1260 ug/kg	
S-1	10/6/2009	2' bis	U	1.0 (QFL-J)	1.7 (QFL-J)	U	1.6 (QFL-J)	U	0.91 (QFL-J)	U	0.61 (QFL-J)	U	U	1.3 (QFL-J)	U	U	U	U	U	U	U	
S-2	10/6/2009	11' bis	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S-3	10/6/2009	2' bis	U	U	1.1 (QFL-J)	U	U	U	0.90 (QFL-J)	U	U	U	U	U	U	U	U	U	U	U	U	
S-4	10/6/2009	17' bis	U	U	U	U	U	U	0.82 (QFL-J)	U	U	U	U	U	U	U	U	U	U	U	U	
S-5	10/6/2009	2' bis	0.7 (QFL-J)	0.66 (QFL-J)	1.6 (QFL-J)	U	0.93 (QFL-J)	U	0.91 (QFL-J)	U	0.67 (QFL-J)	U	U	0.86 (QFL-C4,J)	U	U	U	U	U	U	U	
S-6	10/6/2009	6' bis	U	U	1.1 (QFL-J)	U	U	U	0.92 (QFL-J)	0.58 (QFL-J)	U	U	U	U	U	U	U	U	U	U	U	
S-7	10/6/2009	DUP 5-4	1.1 (QFL-J)	2.0 (QFL)	2.4 (QFL-J)	U	0.95 (QFL-J)	U	0.85 (QFL-J)	U	U	U	1.1 (QFL-J)	1.2 (QFL-C4,J)	U	U	U	U	37 (QSU,J)	5.5 (QSU,J)		
S-8	10/6/2009	2' bis	U	0.59 (QFL-J)	1.1 (QFL-J)	U	U	U	0.98 (QFL-J)	U	U	U	U	0.52 (QFL-C4,J)	U	U	U	U	U	U	U	
S-9	10/6/2009	10' bis	U	U	U	U	U	U	0.94 (QFL-J)	0.65 (QFL-J)	U	U	U	0.53 (QFL-C4,J)	U	U	U	U	U	U	U	
S-10	10/6/2009	2' bis	U	U	2.1 (QFL-J)	U	U	U	0.98 (QFL-J)	U	U	U	U	0.41 (QFL-J)	0.48 (QFL-C4,J)	U	U	U	U	U	U	
Restricted Use Soil Cleanup Objectives - Commercial			82,000	62,000	47,000	580	3,400	3,000	500,000	-	1,400	-	24,000	-	200,000	200,000	15,000	500,000	500,000	1,000 Total		

Notes: QFL = Field clean-up (EPA 3620) performed on extract.

J = The analysis was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

C4 = Calibration Verification recovery was below the method control limit for this analysis.

QSU = Bulk (EPA 3607) clean-up performed on extract.

U = Below Detection Limit

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may or may not represent the actual limit of quantification necessary to accurately and precisely measure the analyte in the sample.

bis = below land surface

**TABLE 2A: GROUNDWATER ELEVATION DATA**

**Facility Name:**

**Clabarton/ Brownfields Site**  
**153 South Liberty Drive**  
**Stony Point, New York**

Site ID#:

**C344068**

**All Measurements = Feet**  
**No Data = Blank**

[illegible]

TABLE 2B  
GROUNDWATER ANALYTICAL SUMMARY  
CIABATTONI I.D. #C344088  
STONY POINT, NY

Sample Location	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	m-P- Xylene µg/L	o- Xylene µg/L	Isopropyl- benzene µg/L	n-Propyl- benzene µg/L	1,3,5-Trimethyl- benzene µg/L	1,3,5-Trimethyl- benzene µg/L	1,2,4-Trimethyl- benzene µg/L	1,1'- Biphenyl µg/L	Cyclo- hexane µg/L	Methyl- cyclohexane µg/L	2-Methyl- naphthalene µg/L	1,2-Dichloro- benzene µg/L	Diethyl- phthalate µg/L	Di-n-butyl- phthalate µg/L	Fluorene µg/L	Phenyl- threne µg/L
MW-1 5/18/2008 10/7/2009	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 ns	<5 ns	<5 ns	U	U	U	U	U	0.41 (J,B)	U	U	U
MW-2 5/18/2008 10/7/2009	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 ns	<5 ns	<5 ns	U	U	U	U	U	0.62 (J,B)	0.30 (J)	U	U
MW-3 5/18/2008 10/7/2009	<5 0.46 (J)	<5 U	<5 U	<5 U	<5 U	<5 U	9.0 U	9.0 ns	<5 ns	<5 ns	<5 ns	U	U	U	U	U	0.39 (J,B)	0.46 (J)	0.25 (J)	U
MW-4 5/18/2008 10/7/2009	<5 0.98 (J)	8.0 2.8 0.66 (J)	13.0 0.66 (J)	190.0 2.1	120.0 0.78 (J)	<5 U	44.0 29	110.0 ns	48.0 ns	<5 ns	<5 ns	U	U	U	U	U	0.34 (J,B)	0.88 (J)	0.23 (J)	U
MW-5 5/18/2008 10/7/2009	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 ns	<5 ns	<5 ns	<5 ns	U	U	U	U	U	0.61 (J,B)	0.43 (J)	U	U
MW-6 5/18/2008 10/7/2009	<5 NS	290.0 8.8 (D08)	170.0 17 (D08)	610.0 270 (D08)	600.0 340 (D08)	38.0 14 (D08)	110.0 63 (D08)	200.0 ns	260.0 ns	<5 ns	<5 ns	0.66 (J)	170 (D08)	97 (D08)	19	U	0.30 (J,B)	0.33 (J)	0.31 (J)	U
W-7 10/8/2009 Equipment Blank	U	U	0.69 (J)	U	U	U	U	ns	ns	ns	ns	U	U	U	U	U	0.47 (J,B)	U	U	U
W-8 10/7/2009 Duplicate (MW-6)	U	8.6 (D08)	17 (D08)	260 (D08)	330 (D08)	14 (D08)	60 (D08)	ns	ns	ns	ns	0.66 (J)	160 (D08)	87 (D08)	22	U	U	0.54 (J)	0.30 (J)	0.24 (J)
Groundwater SCG	20	1	5	5	5	5	5	5	5	5	5	5	n/a	n/a	n/a	3	50	50	50	50

Note: B = Analyte was detected in the unspiked Method Blank.  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
D08 = Dilution required due to high concentration of target analyte(s).  
(S) = Score sheet not included 0.8  
U-C = Below detection limits due to lab blank contamination.  
Bold indicates exceedance of allowable level

**TABLE 2B**  
**GROUNDWATER ANALYTICAL SUMMARY**  
**CIABATTONI I.D. #C344068**  
**STONY POINT, NY**

Sample		Acenaphthene		sec-Butylbenzene	p-Isopropyltoluene	n-Butylbenzene	Naphthalene	Mercury	Arsenic	Selenium	Barium	Cadmium	Chromium	Lead	Silver	Beryllium	Calcium	Cobalt	Iron	Magnesium	Manganese
Location	Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	5/19/2008			<5	<5	<5	<5	<0.20	<20.0	<20.0	82.7	<5.0	<15.0	<15.0	<5.0	U-C	U-C	U-C	NS	24700	5.7
	10/7/2009	U	U	ns	ns	ns	U	U-C	U	U	121	U	U	U	U	U-C	112000	U-C	NS		
MW-2	5/19/2008			<5	<5	<5	<5	<0.20	<20.0	<20.0	48.9	<5.0	<15.0	<15.0	<5.0						
	10/7/2009	U	U	ns	ns	ns	U	U	U	U	188	U	U	U	U	U-C	238000	U	20 (J)	59600	10.2
MW-3	5/19/2008			7.0	<5	<5	<5	<0.20	<20.0	<20.0	113.0	<5.0	<15.0	<15.0	<5.0						
	10/7/2009	U	4.4 (J)	ns	ns	ns	U	U-C	U	U	232	U	U	U	U	U-C	116000	U	7320	21400	3100
MW-4	5/19/2008			18.0	5.0	18.0	31.0	<0.20	<20.0	<20.0	84.9	<5.0	<15.0	<15.0	<5.0						
		0.20 (J)	4.6 (J)	ns	ns	ns	U	0.1 (J)	U	U	274	U	U	U	U	U-C	169000	U	3150	39300	3680
MW-5	5/19/2008			<5	<5	<5	<5	<0.20	<20.0	<20.0	152.0	<5.0	<15.0	<15.0	<5.0						
	10/7/2009	U	U	ns	ns	ns	U	U	U	U	180	U	U	U	U	U-C	174000	U-C	5730	36300	1720
MW-6	5/19/2008			18.0	8.0	30.0	170.0	<0.20	<20.0	<20.0	119.0	<5.0	<15.0	<15.0	<5.0						
	10/7/2009	U	U	ns	ns	ns	72	U	9.1 (J)	NS	77.8	U	U	U	U	U-C	38500	U	7530	8650	2030
MW-7	10/8/2009			ns	ns	ns	U	U	U	U	U	U	U	U	U	U	100 (J)	U	U	U	NS
Equipment Blank																					
MW-8	10/7/2009			ns	ns	ns	76	U	8.7 (J)	U	73.7	U	U	U	U	U-C	36500	U	7150	8220	1930
Duplicate (MW-8)																					
Groundwater SCG		20	50	5	n/a	5	10	1.4	50	20	2000	10	100	50	100	3	n/a	n/a	600	35,000	600

Notes: B = Analyte was detected in the associated Method Blank.  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
DOB = Dilution required due to high concentration of target analyte(s).  
(S) = Sum shall not exceed 0.9  
U-C = Below detection limits due to lab blank contamination.  
Bold indicates exceedance of allowable level



TABLE 2B  
GROUNDWATER ANALYTICAL SUMMARY  
CIABATTONI I.D. #C344068  
STONY POINT, NY

Sample Location	Date	Aluminum µg/L	Potassium µg/L	Sodium µg/L	Zinc µg/L	4,4'-DDE µg/L	alpha-BHC µg/L	d,l-BHC µg/L	gamma-BHC µg/L	Heptachlor epoxide µg/L	1,1,1-Trichloro- ethane µg/L	1,1,1-Trichloro- ethane µg/L	1,1,2,2-Tetra- chloroethane µg/L	1,1,2-Trichloro- ethane µg/L	1,1,2-Trichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	1,2-Dibromo- methane (EDG) µg/L	1,2-Dibromo- 3-chloropropene µg/L	1,2,4-Trichloro- benzene µg/L	1,2,3-Trichloro- benzene µg/L	1,2,4-Trichloro- benzene µg/L	1,2-Dichloro- benzene µg/L	
MW-1	5/19/2008 10/7/2008	U	3000	230000	U-C	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
MW-2	5/19/2008 10/7/2008	U	4310	223000	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
MW-3	5/19/2008 10/7/2008	U	3990	209000	U	0.024 (J)	NS	0.028 (J)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
MW-4	5/19/2008	56 (J)	7050	259000	13.9	0.025 (J)	U	0.024 (J)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
MW-5	5/19/2008 10/7/2008	U	3640	278000	3.2 (J)	U	U	0.021 (J)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
MW-6	5/19/2008 10/7/2008	U	2170	171000	U	U	U	0.024 (J)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
W-7	10/6/2009 Equipment Blank	U	NS	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
W-8	10/7/2008 Duplicate (MW-6)	U	2010	162000	U	U	0.024 (J)	U	0.017 (J)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Groundwater SCG		2,000	n/a	n/a	5,000	0.2	0.01	0.04	0.05	0.03	5	5	5	1	5	5	5	5	0.0008	0.04	5	5	5	0.6

Notes: S = Analyte was detected in the standard Method Blank.  
J = The Analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.  
DOI = (Data) required due to high concentration of target analyte(s).  
U-C = Below detection limit due to lab blank contribution.  
(J) = Sum and not exceed 98

TABLE 2B  
GROUNDWATER ANALYTICAL SUMMARY  
CIABATTONI I.D. #C344068  
STONY POINT, NY

Sample Location	Date	1,2-Dichloro- propane µg/L		1,3-Dichloro- benzene µg/L		1,4-Dichloro- benzene µg/L		2,4-Dichloro- benzene (MCK) µg/L		2-Butanone (MEQ) µg/L		Hexanone µg/L		4-Methyl-2- pentanone (MIBK) µg/L		Bromochloro- methane µg/L		Bromo- chloromethane µg/L		Carbon Disulfide µg/L		Carbon Tetrachloride µg/L		Chloro- benzene µg/L		Dibromo- chloromethane µg/L		Chloro- ethane µg/L		Chloroform µg/L		cis-1,2- Dichloroethene µg/L		cis-1,3- Dichloropropene µg/L	
		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
MW-1	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-2	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-3	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-4	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-5	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-6	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-7	10/8/2008 Equipment Blank	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-8	10/7/2009 Duplicate (MW-6)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Groundwater SOG		1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0.4

None B = Analyte was detected in the associated Method Blank.  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
DB = Chloroform (added due to high concentration of target analyte(s)).  
L/C = Below detection limit due to low blank concentration.  
N/A = Blank value not measured (0.9)

TABLE 2B  
GROUNDWATER ANALYTICAL SUMMARY  
CIABATTONI I.D. #C344068  
STONY POINT, NY

Sample Location	Date	Dichloro- difluoromethane µg/L	Methyl Acetate µg/L	Methylene Chloride µg/L	Styrene µg/L	Tetrachloro- ethene µg/L	Trichloro- ethene µg/L	Trichloro- fluoromethane µg/L	Vinyl Chloride µg/L	1,2,4,5-Tetra- chlorobenzene µg/L	2,3,4,6-Tetra- chlorophenol µg/L	2,4,6-Trichloro- phenol µg/L	2,4-Dichloro- phenol µg/L	2,4-Dimethyl- phenol µg/L	2,4-Dinitro- phenol µg/L	2,6-Dinitro- toluene µg/L	2-Chloro- phenol µg/L
MW-1	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-2	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-3	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-4	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-5	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-6	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
WL-7	10/6/2009 Equipment Blank	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
WL-8	10/7/2009 Duplicate (MW-4)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Groundwater SCG		5	n/a	5	530	5	5	5	2	5	n/a	n/a	2	2	2	5	10

Notes: U = Analyte was detected in the associated Method Blank.  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
DB = Dilution required due to high concentration of target analyte(s).  
UC = Below detection limits due to lab blank contamination.  
(B) = Blank result not associated with sample.

TABLE 2B  
GROUNDWATER ANALYTICAL SUMMARY  
CIABATTONI I.D. #C344068  
STONY POINT, NY

Sample		2-Methyl- naphthalene µg/L	2-Methyl- phenol µg/L	2-Nitro- aniline µg/L	2-Nitro- phenol µg/L	3,3-Dichloro- benzidine µg/L	3-Nitro- aniline µg/L	4,6-Dinitro-2- methylphenol µg/L	4-Bromophenyl phenylether µg/L	4-Chloro-3- methylphenol µg/L	4-Chloro- aniline µg/L	4-Chlorophenyl phenyl ether µg/L	4-Methyl- phenol µg/L	4-Nitro- aniline µg/L	4-Nitro- phenol µg/L	Acetoph- enylene µg/L	Aceto- phenone µg/L	Anthracene µg/L	Atrazine µg/L	Benzal- dehyde µg/L	Benzof(a)- anthracene µg/L
Location	Date																				
MW-1	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-2	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-3	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-4	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-5	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-6	5/19/2008 10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
W-7	10/8/2009 Equipment Blank	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
W-8	10/7/2009 Duplicate (MW-6)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Groundwater SCG		2	2	5	2	5	5	n/a	n/a	2	5	n/a	2	5	2	n/a	n/a	50	7.5	n/a	0.002

Notes: B = Analyte was detected in the unamended Method Blank.  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
DDB = Dilution required due to high concentration of target analyte(s).  
U-C = Below detection limits due to lab blank contamination.  
(B) = Blank still not exceed CB



TABLE 2B  
GROUNDWATER ANALYTICAL SUMMARY  
CIABATTONI I.D. #C344068  
STONY POINT, NY

Sample Location	Date	Heptachloro-ethane µg/L	Indeno[1,2,3-cd]pyrene µg/L	Isophorone µg/L	Naphthalene µg/L	Nitrobenzene µg/L	N-Nitrosodipropylamine µg/L	N-Nitrosodiphenylamine µg/L	Perchlorophenol µg/L	Phenol µg/L	Pyrene µg/L	4,4-DDD µg/L	4,4-DDE µg/L	Alkyl µg/L	Alpha-Chloro µg/L	Beta-BHC µg/L	Diethyl µg/L	Endo-sulfon µg/L	Endo-sulfon II µg/L	Endo-sulfon µg/L	Endrin µg/L
MW-1	5/18/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-2	5/18/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-3	5/18/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-4	5/18/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-5	5/18/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-6	5/18/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
W-7	10/8/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Equipment Blank																					
W-8	10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Duplicate (MW-9)																					
Groundwater SCG		5	0.002	50	10	0.4	n/a	50	2	2	50	0.3	0.2	n/a	0.05	0.04	0.004	n/a	n/a	n/a	ND

Notes: B = Analyte was detected in the associated Method Blank.  
J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.  
DGL = Dilution required due to high concentration of target analyte(s).  
U-C = Below detection limits due to lab blank contamination.  
(S) = Sum shall not exceed 0.9

**TABLE 2B**  
**GROUNDWATER ANALYTICAL SUMMARY**  
**CIABATTONI I.D. #C344068**  
**STONY POINT, NY**

Sample Location	Date	Endrin aldehyde		Endrin ketone	Gamma-Chlordane	Heptachlor	Methoxy-chlor	Toxaphene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Antimony	Copper	Nickel	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
MW-1	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-2	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-3	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-4	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
MW-5	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
MW-6	5/19/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	10/7/2009																				
W-7	10/8/2008	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	Equipment Blank																				
W-8	10/7/2009	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	Duplicate (MW-6)																				
Groundwater SCG		S	S	S	0.05	0.04	35	0.08	0.09 (S)	0.09 (S)	0.09 (S)	0.09 (S)	0.09 (S)	0.09 (S)	0.09 (S)	0.09 (S)	0.09 (S)	6	1,000	200	0.5

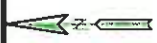
Notes: B = Analyte was detected in the associated Method Blank.  
J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.  
DXB = Dilution required due to high concentration of target analyte(s).  
U-C = Below detection limits due to lab blank contamination.  
(S) = Sum shall not exceed 0.09

**Table 3**  
**Soil Gas Vapor Analytical Data**  
**Ciabattoni Brownfields Site**  
**Site # C344068**

Ambient Center of Lobby			Sub-slab Center of Lobby			Ambient Northeast Office		
Sample No.	5366079 AQ	Concentration (ug/m3)	Sample No.	5366080 AQ	Concentration (ug/m3)	Sample No.	5366081 AQ	Concentration (ug/m3)
Analyte			Analyte			Analyte		
Propene	44		Chloroethane	19		Propene	56	
Pentane	270		Acetone	28		Pentane	350	
Acetone	390		2-Butanone	6.9		Acetone	390	
2-Butanone	310		Isopropanol	72.8		2-Butanone	350	
Isopropanol	76791.7					Isopropanol	68708.3	
North - SVI Point			South - SVI Point			West - SVI Point		
Sample No.	5366075 AQ	Concentration (ug/m3)	Sample No.	5366077 AQ	Concentration (ug/m3)	Sample No.	5366078 AQ	Concentration (ug/m3)
Analyte			Analyte			Analyte		
Propene	540		Tert-Butyl Alcohol	9.6		Propene	2.9	
1,3 Butadiene	7.9		Propene	630		Pentane	3.4	
Pentane	180		1,3 Butadiene	9.9		Acetone	120	
Acetone	830		Pentane	110		2-Butanone	6.7	
Carbon Disulfide	71		Acetone	1000		Isopropanol	28.3	
Hexane	66		Carbon Disulfide	12				
2-Butanone	25		Hexane	44				
Chloroform	80		2-Butanone	42				
Benzene	49		Chloroform	81				
Isooctane	21		Benzene	22				
Heptane	63		Isooctane	8.2				
Toluene	170		Heptane	59				
Octane	58		Toluene	120				
Tetrachloroethene	18		Octane	25				
Ethylbenzene	52		Tetrachloroethene	9.7				
m/p xylene	180		2-Hexanone	20				
o-xylene	54		Ethylbenzene	28				
styrene	5.9		m/p xylene	94				
cumene	5.4		o-xylene	27				
4-ethyltoluene	55		4-Ethyltoluene	25				
1,3,5 Trimethylbenzene	13		1,3,5 Trimethylbenzene	6.5				
1,2,4 Trimethylbenzene	40		1,2,4 Trimethylbenzene	20				
Hexachloroethane	56		Hexachloroethane	36				
Isopropanol	28.3		Isopropanol	60.6				
Ambient Upwind			Ambient Upwind			Ambient Upwind		
Sample No.	5366076 AQ	Concentration (ug/m3)	Sample No.	5366076 AQ	Concentration (ug/m3)	Sample No.	5366076 AQ	Concentration (ug/m3)
Analyte			Analyte			Analyte		
Acetone	18		Acetone	18		Acetone	18	
2-Butanone	6.6		2-Butanone	6.6		2-Butanone	6.6	
Isopropanol	12.1		Isopropanol	12.1		Isopropanol	12.1	



## Figures



**LEGEND:**

Standard Notes

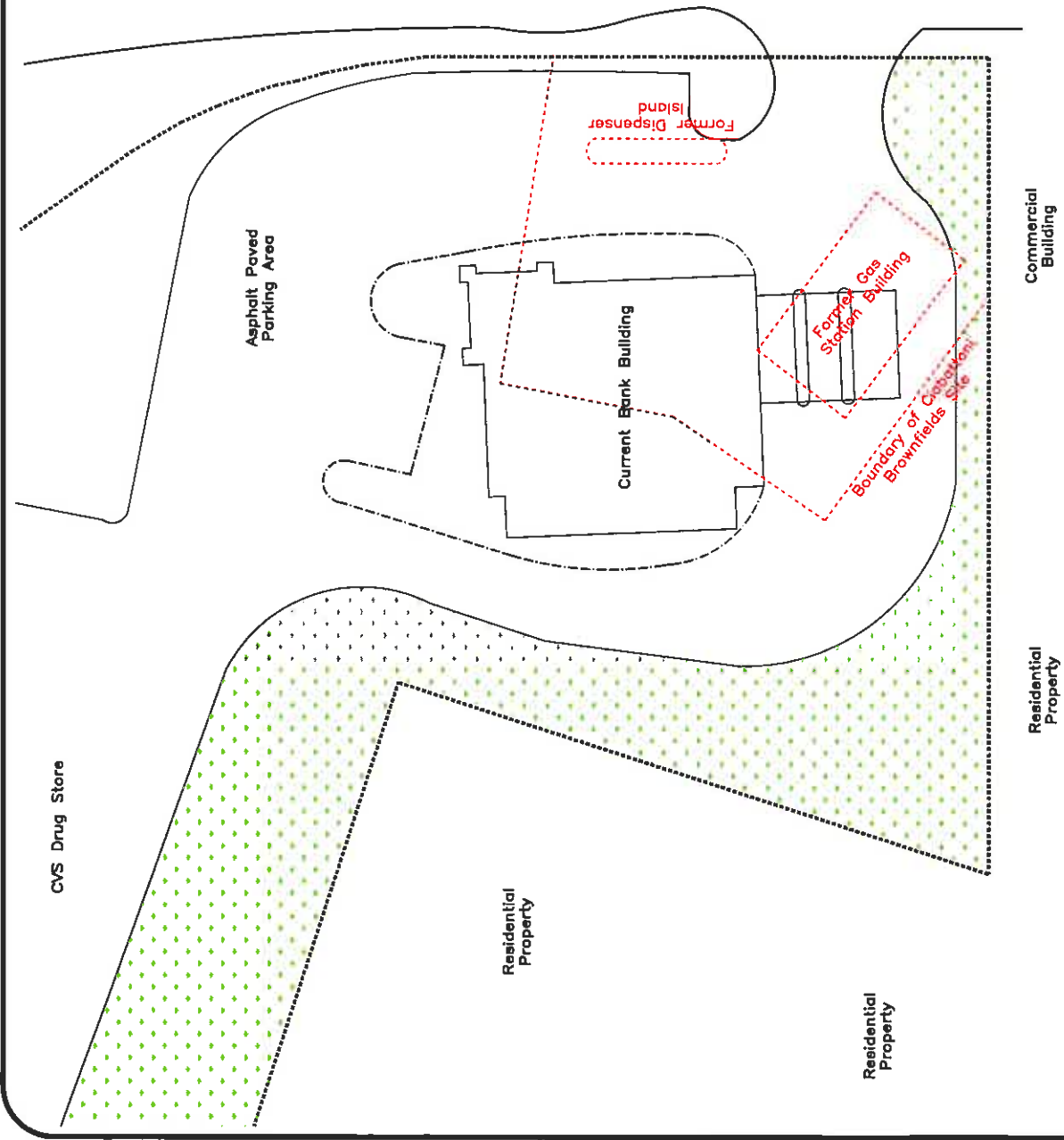
Building/Feature	Date

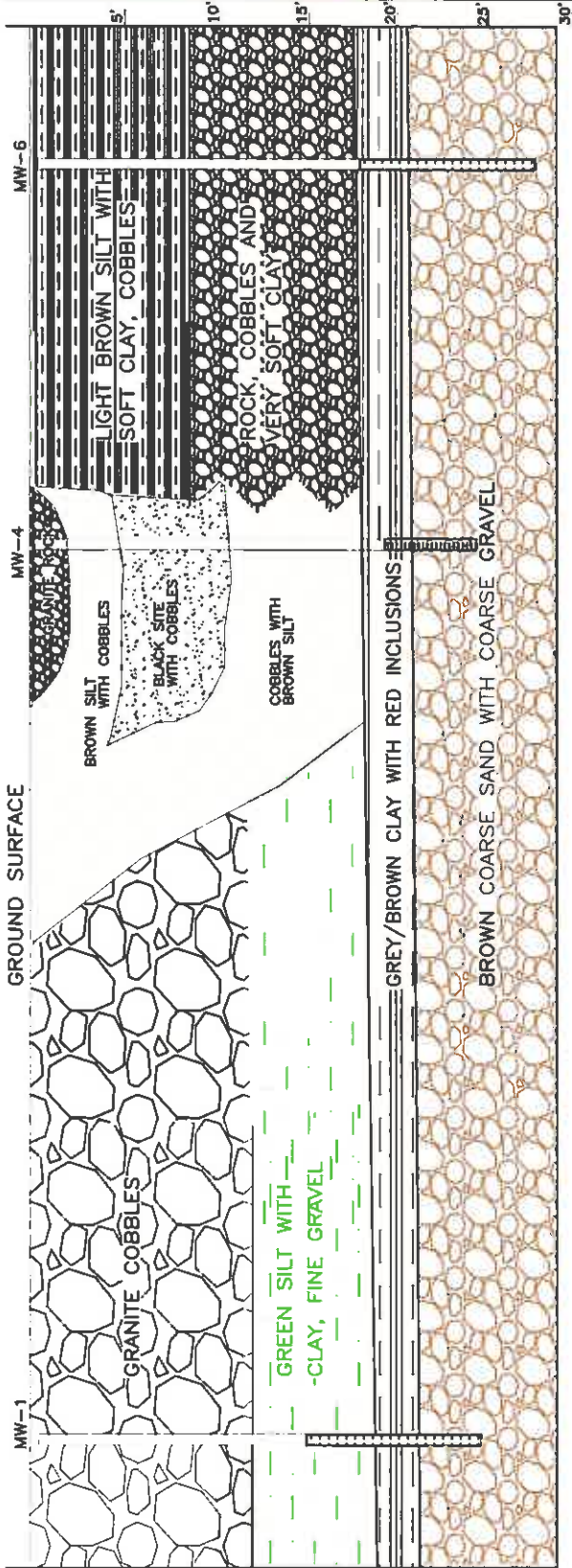


Client: Clabattani Property  
153 South Liberty Drive  
Sunny Point, New York  
Site No. C344085

Project	050409	Figure 1
Date	8/28/09	Site
Scale	1" = 40'	Location

U.S. Route 9W & 202  
South Liberty Drive





RESCALE MW-4	8/2/08
Author	
Check/Revise	



Project Name and Address  
 CIABATTONI PROPERTY  
 SITE #: C34-0088  
 153 S. LIBERTY DRIVE  
 STONY POINT, NY

FIGURE 2A
DATE: 8/10/08
SCALE: 1" = 10'
SECTION: H 1" = 20'

GROUND SURFACE

MW-2

2" GRANITE ROCK WITH SILT

MW-4

MW-3

BROWN SILT WITH COBBLES

BLACK SILT WITH COBBLES

BROWN SILT WITH COBBLES

ELUCHI BROWN SILT WITH SOFT CLAY & COBBLES

GREY HARD CLAY, RED INCLUSIONS

BROWN COARSE SAND WITH COARSE GRAVEL

# LEGEND:

CLAY



FINE - GRAINED SILT W/ CLAY & COBBLES



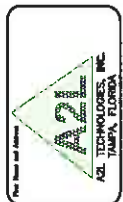
SANDY GRAVEL



SILTY GRAVEL



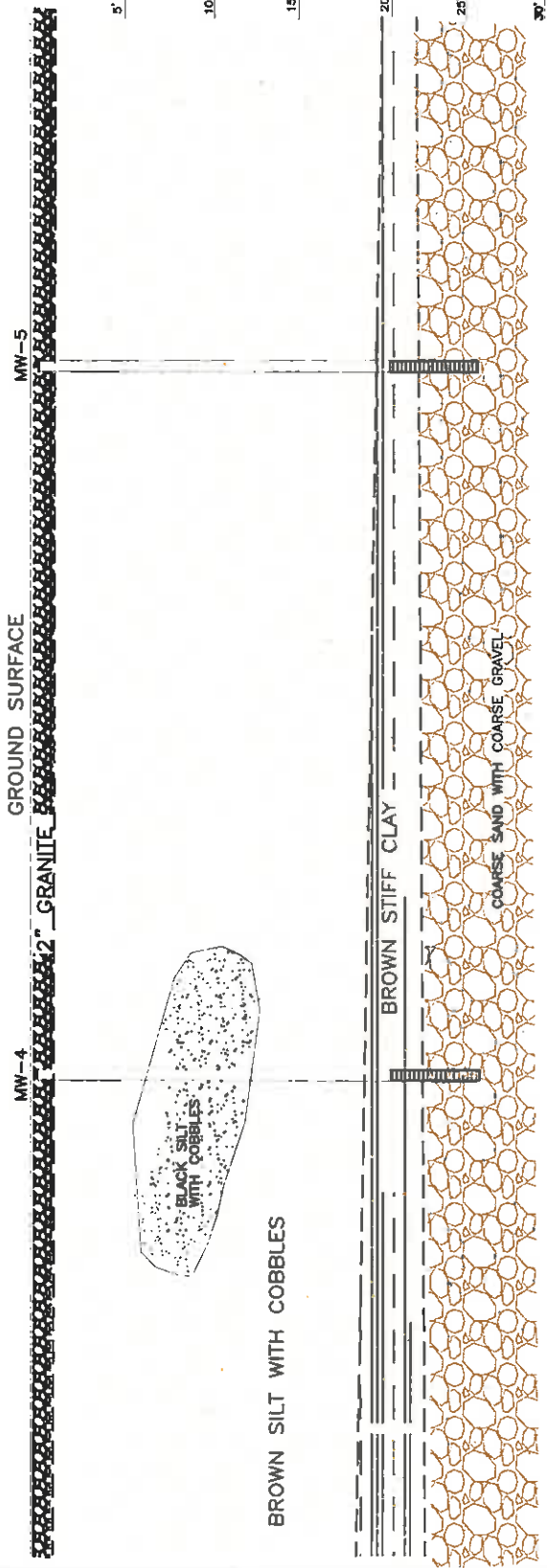
RESURVEY	MW-4	5/2/08
DATE	5/2/08	DATE



CIABATTINI PROPERTY  
SITE # C344088  
153 S. LIBERTY DRIVE  
STONY POINT, NY

FIGURE 2B	FIGURE 2B
DATE	8/9/08
SCALE	1" = 10'
SECTION	SECTION





# LEGEND:

CLAY



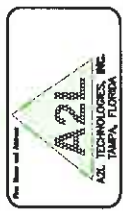
FINE - GRAINED SILT W/ COBBLES



SANDY GRAVEL/ COBBLES



REVISION	DATE
1	10/10



CABATTONI PROPERTY  
SITE # C34-4088  
153 S. LIBERTY DRIVE  
STONY POINT, NY

FIGURE 20
3/10/10
1" = 10'
1" = 20'

CVS Drug Store

Residential  
Property

Residential  
Property

Residential  
Property

Asphalt Paved  
Parking Area

Current Bank Building

Former Gas  
Station Building

Former  
Dispenser  
Island

Commercial  
Building

U.S Route 9W & 202  
South Liberty Drive

LEGEND:

Groundwater  
Monitoring  
Well

111.74 Groundwater  
Elevation

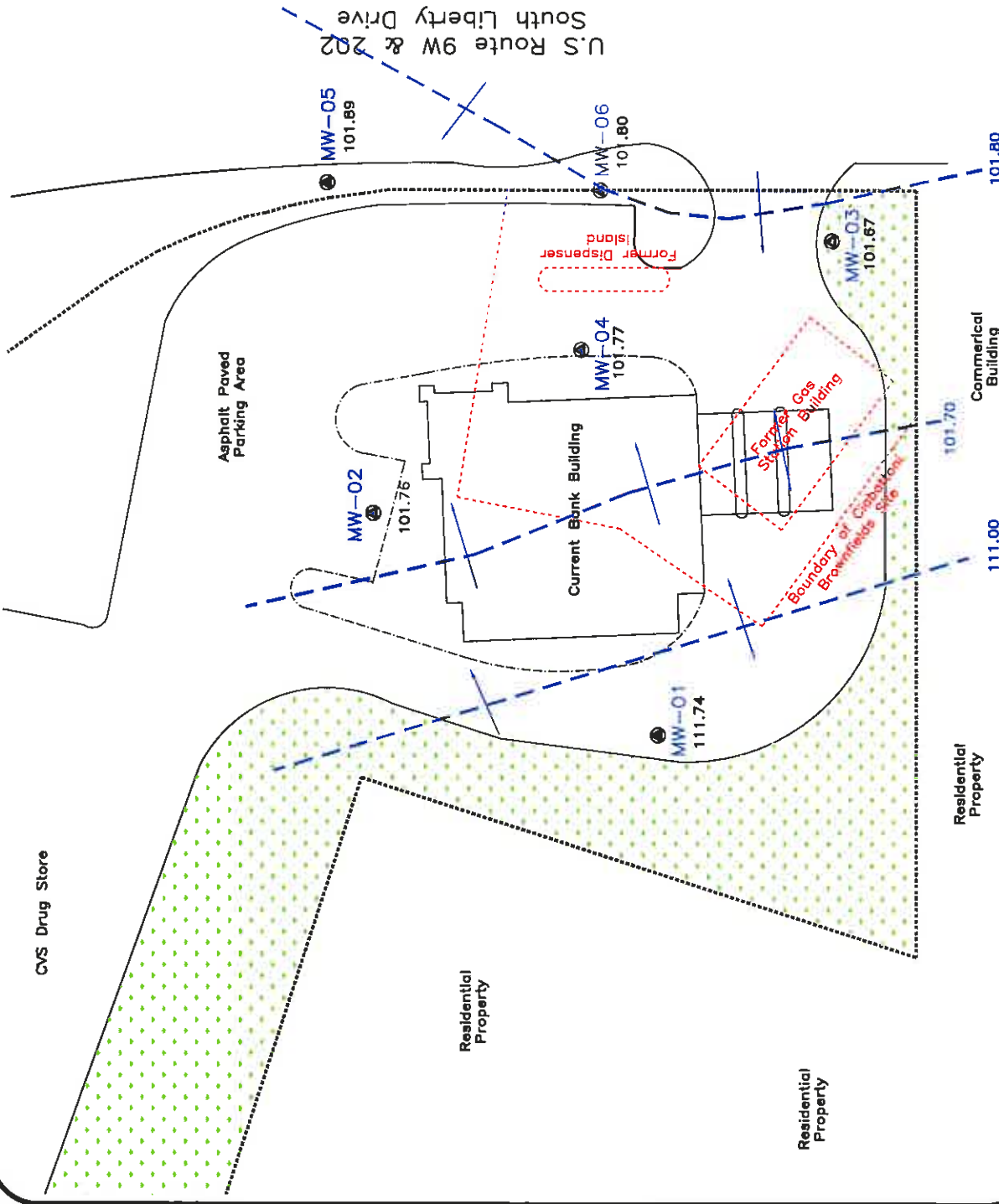
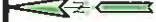
Groundwater  
Flow  
Direction

Measurements  
5/20/08



Clabattani Property  
533 South Liberty Drive  
Stamford, CT 06907  
Site No. C3-44088

Project Name and Address  
050409 Figure 3  
11/5/09  
40'



CVS Drug Store



Asphalt Paved  
Parking Area

U.S. Route 9W & 202  
South Liberty Drive

Residential  
Property

Residential  
Property

Residential  
Property

Commercial  
Building

Current Bank Building

Former  
Dispenser  
Island

Former Gas  
Station Building

Boundary of Clabottville  
Brownfields Site

**LEGEND:**

Groundwater  
Monitoring  
Well

100.05 Groundwater  
Elevation

Groundwater  
Flow  
Direction

Measurements  
10/7/09 &  
10/8/09

Building/Feature	Date



Clabottville Property  
CVS Drug Store  
South Liberty  
Street, Port, New York  
Site No. C344068

Project	050409	Figure	3A
Date	11/5/09	Drawn by	Groundwater Consultant
Scale	1" = 40'	Check by	10/7/09/08



CVS Drug Store

Residential Property

Residential Property

Residential Property

Commercial Building



# LEGEND:

General Notes

Building Number	Year



Client: Ciabattini Property  
Address: 635 South Liberty Drive  
City: Tampa, FL 33606  
Site No. C344058

Project No.	050409	Figure 4
Date	8/28/09	Soil Contamination
Scale	1" = 40'	

U.S. Route 9W & 202

Vegetated Area

Asphalt Paved Parking Area

Estimated Extent of Soils with CWA > 100 ppm at 6" BLS

Former Dispenser Island

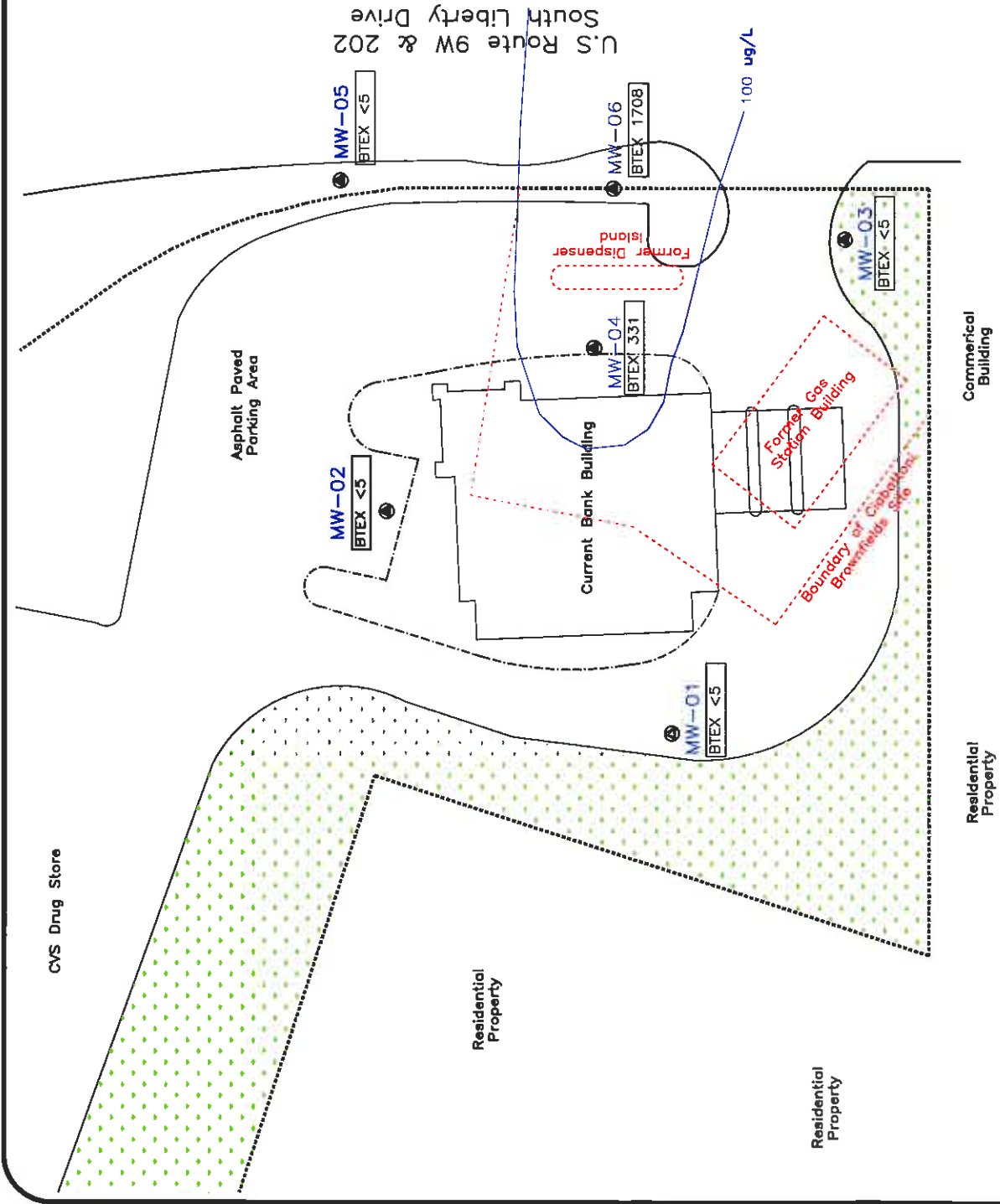
Current Bank Building

Former Gas Station Building

Boundary of Ciabattini Property

Estimated Extent of Soil Contamination @ 18"-22" BLS





**LEGEND:**

- Groundwater Monitoring Well
- BTEX <5
- BTEX Groundwater Concentration

Building/Feature	Date



Client Name and Address  
 Clabattani Property  
 33 South Liberty Drive  
 Liberty Park, New York  
 Site No. C3-4088

Project	050409	Figure 5
Date	10/1/08	Drawn by: [blank]
Scale	1" = 40'	Check by: [blank]
		3/20/08

Revised: 11/5/09

# LEGEND:

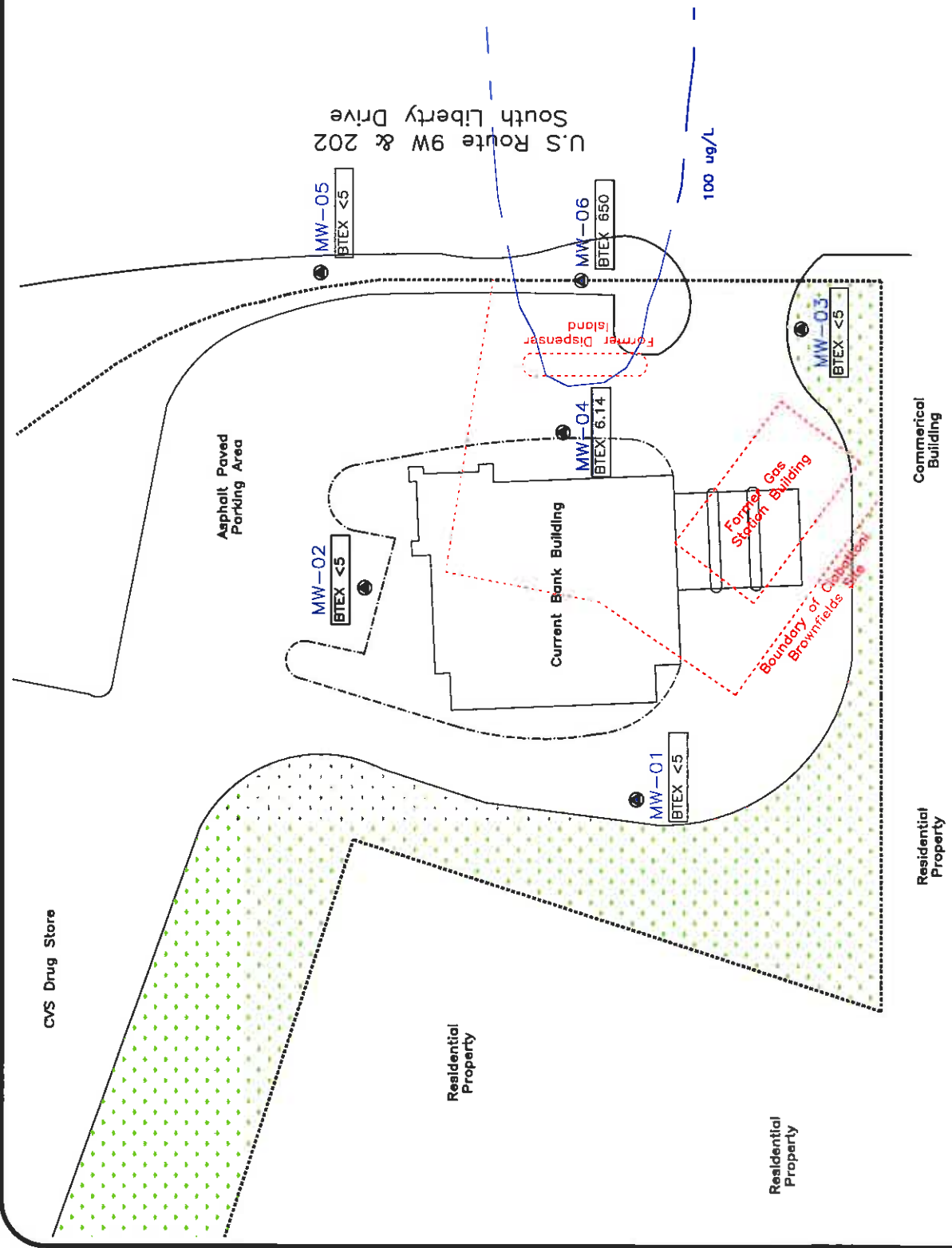
- Groundwater Monitoring Well
- BTEX <5
- BTEX Groundwater Concentration

Building Name	Date



Client: Property  
153 South Liberty Drive  
Stony Point, New York  
Site No. C344068

Project	050409	Figure	5A
Date	11/5/09	Drawn by	
Scale	1" = 40'	Checked by	
			10/7/09/09





**Legend:**

- Soil Vapor Intrusion (SVI) Point

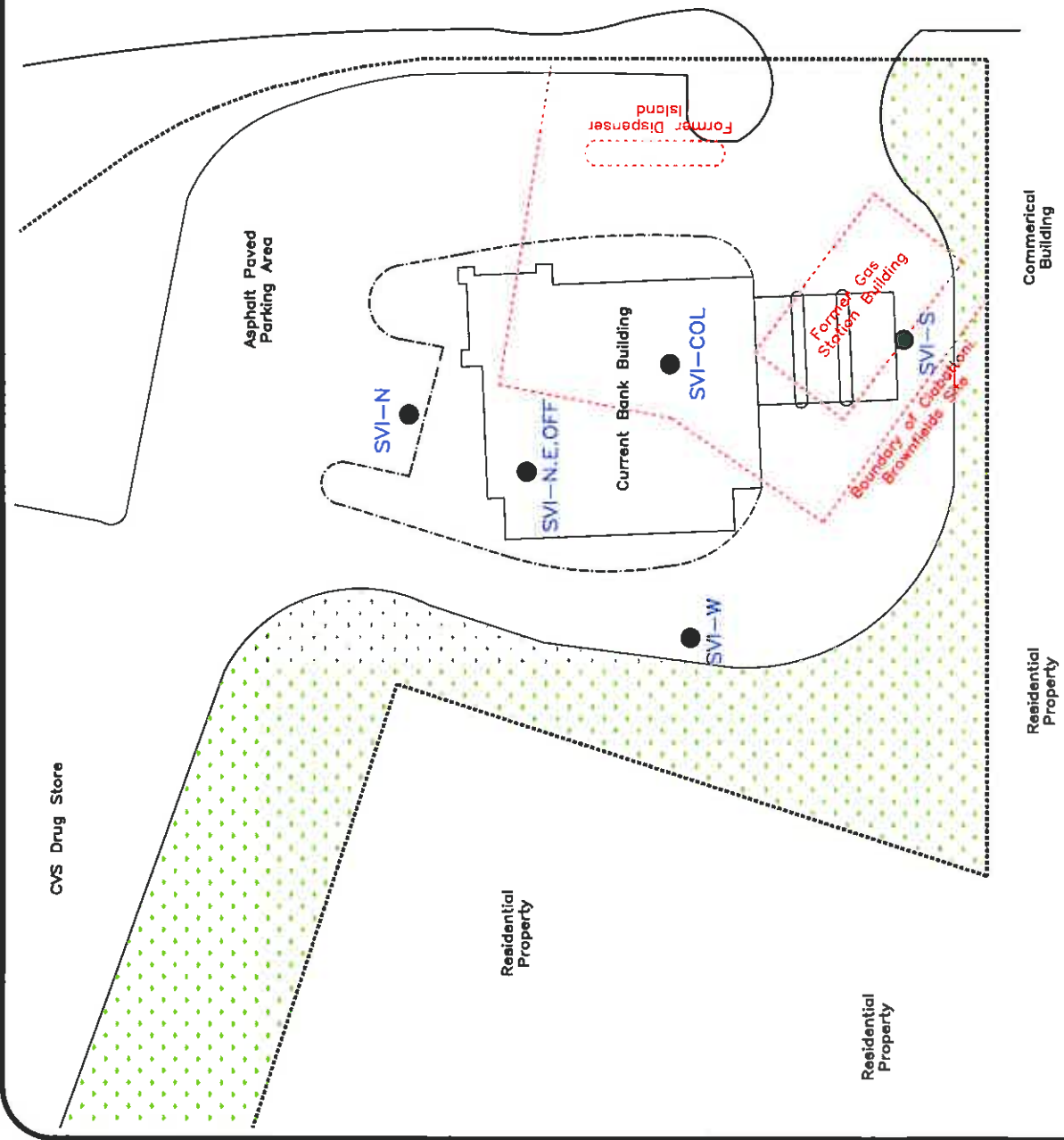
Monitoring Point	Depth



**Client Name and Address:**  
Cibabaton Property  
100 South Liberty Drive  
Stony Point, New York  
Site No. C344068

Project	050409	Figure	8
Date	8/28/09	Soil Vapor Monitoring Points	
Scale	1" = 40'		

U.S. Route 9W & 202  
South Liberty Drive



CVS Drug Store

Residential Property

Residential Property

Residential Property

Commercial Building

Asphalt Paved Parking Area

2007 Remedial Excavation Area

2003 UST EXCAVATION AREA

Current Bank Building

2003 WASTE OIL EXCAVATION AREA

2004 HYDRAULIC LIFT AND DISPENSER EXCAVATION AREA

Former Gas Station Building

Boundary of Cibaotoni Brownfields Site

### SOIL SAMPLES

SB-02	FORMER WASTE OIL TANK	4'-8" BLS
SB-04	FORMER DISPENSER	17'-19" BLS
SB-06	FORMER HYDRAULIC LIFT	6'-8" BLS

U.S. Route 9W & 202 South Liberty Drive

### LEGEND:

**SB-04**

SOIL BORING INSTALLED FOR REMEDIAL EXCAVATION AREAS AS POST REMEDIATION SAMPLES

UPDATED W/BORINGS

DATE

DATE



Cibaotoni Property  
333 South Liberty Drive  
St. Petersburg, FL 33705  
Site No. C344068

Project Name and Address  
Figure 7  
Remedial Excavation Plan  
Scale: 1" = 40'



**Legend:**

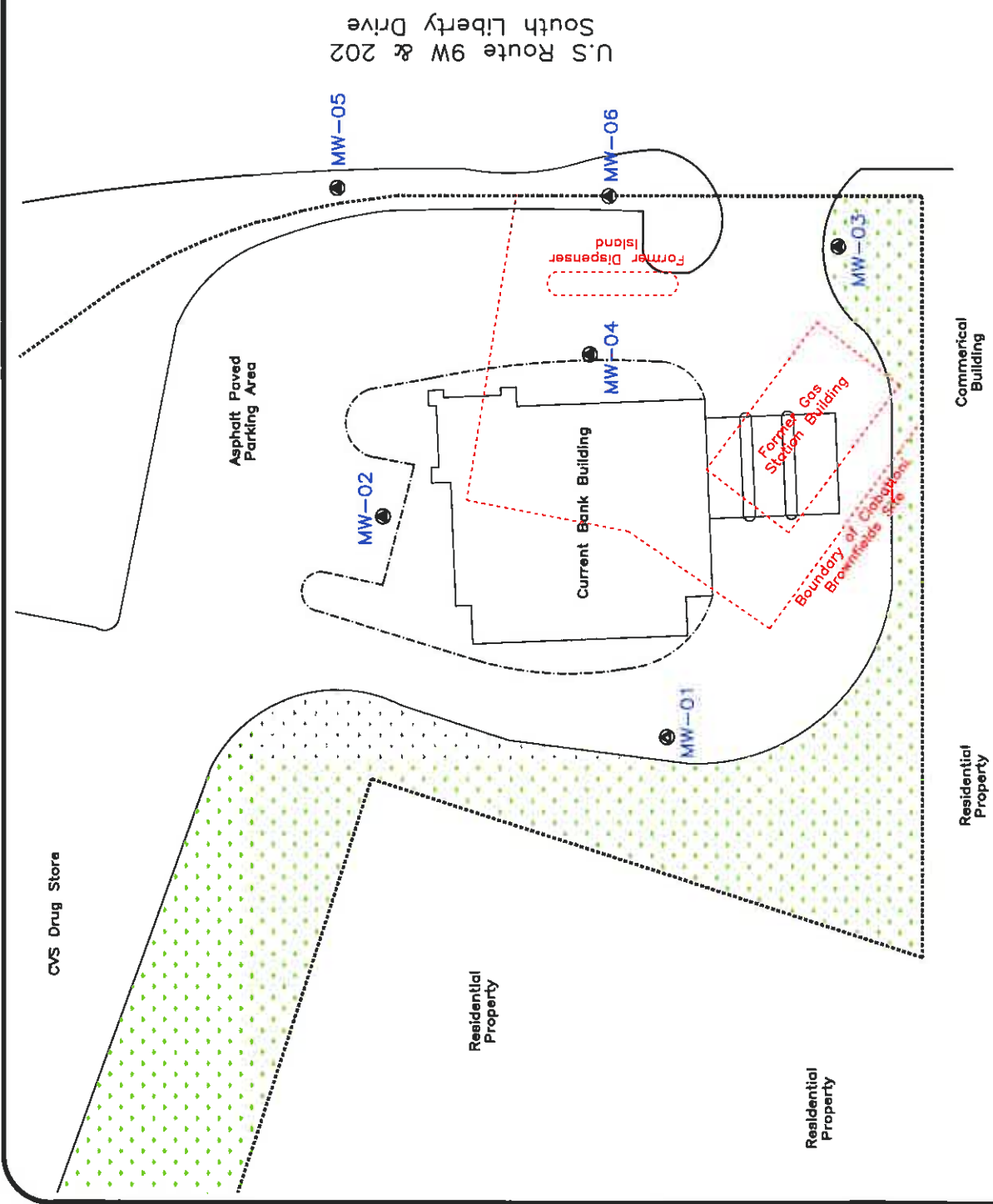
● Groundwater Monitoring Well

Building/Feature	Date



Client: **Clabattell Property**  
Address: **333 South Liberty Street, New York, NY**  
Site No: **C34406B**

Project No:	050409	Figure 8
Date:	8/28/09	Monitoring Well Locations
Scale:	1" = 40'	



CVS Drug Store

Residential  
Property

Residential  
Property

Residential  
Property

Asphalt Paved  
Parking Area

Current Bank Building

Former Gas  
Station Building

Boundary of Chronical  
Brownfields Site

Commercial  
Building

U.S. Route 9W & 202  
South Liberty Drive

SOIL SAMPLE LOCATIONS 10/6/09		
BORING #	SOIL SAMPLE #	SAMPLE DEPTH
SB-1	S-1	1.5'-2'
SB-2	S-2	10'-11'
SB-3	S-3	1.5'-2'
SB-4	S-4	16'-17'
SB-5	S-5	18'-17'
SB-6	S-6	1.5'-2'
SB-7	S-7 (DUP S-4)	5'-6'
SB-8	S-8	0.0'-2'
SB-9	S-9	8'-10'
SB-10	S-10	1.5'-2'

## LEGEND:

Building Name	Address

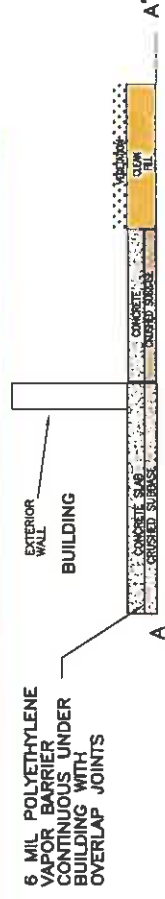
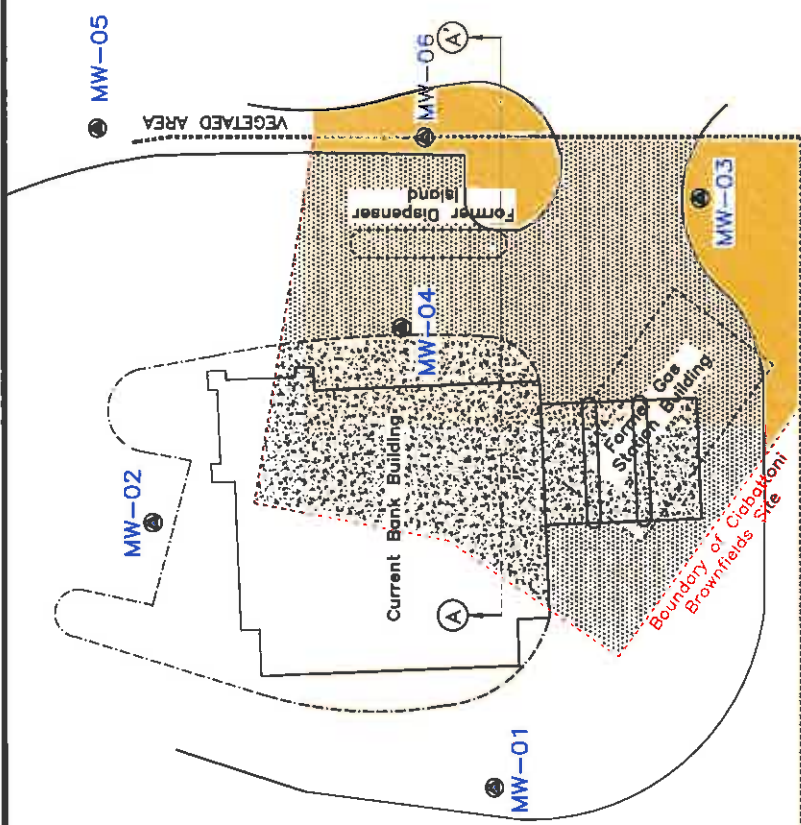


Client: Property  
Address: Liberty Drive  
City: St. Petersburg, FL  
State: FL  
Zip: 34782  
Site No. C344058

Project	050409	Figure 9
Date	11/5/09	Soil Sample
Scale	1" = 40'	Location
		Date: 10/6/09



U.S. Route 9W & 202  
South Liberty Drive



COVER CROSS-SECTION

**LEGEND:**

- Groundwater Monitoring Well
- CONCRETE COVER
- ASPHALT COVER
- 2" (MIN) SOIL/VEGETATION COVER

Revolutions/Minute	Depth

**A2I**  
ADL TECHNOLOGIES, INC.  
TAMPA, FLORIDA

Client/Host: Property  
1433 South Liberty Drive  
Stony Point, New York  
Site No. C344068

Project Name and Address

Project: 050409  
Date: 5/10/10  
Scale: 1" = 40'

Figure 10  
Sitewide  
Cover Plan  
With  
X-Section

**APPENDIX 1**  
**Metes and Bounds Description**



**SCHEDULE A DESCRIPTION**

Old Tax Lot 20.15-1-17

ALL that certain plot, piece or parcel of land situate, lying and being in the Town of Stony Point, County of Rockland and State of New York. Being more fully bounded and described as follows:

BEGINNING at a point on the westerly right-of-way line of U.S. Routes 9W & 202 - South Liberty Drive, said point being located at the northeast corner of lands now or formerly of Joseph & Maureen Pehush (Tax Lot 20.15-1-18) and the southeast corner of the hereinafter intended to be described parcel; running thence

1)N 78-36-00 W, 55.91 feet along the northerly line of lands now or formerly of Joseph & Maureen Pehush (Tax Lot 20.15-1-18); thence

2)N 45-46-00 W, 70.56 feet; thence

3)N 45-25-38 E, 45.46 feet; thence

4)N 23-26-18 E, 44.27 feet; thence

5)S 69-03-58 E, 77.63 feet, thence

6)On a curve to the right, connecting the southerly right-of-way line of Filors Lane with the westerly right-of-way line of U.S. Routes 9W & 202 - South Liberty Drive, having a radius of 372.04 feet, an arc length of 54.37 feet; thence

7)S 11-24-00 W, 52.19 feet along the westerly right-of-way line of U.S. Routes 9W & 202 - South Liberty Drive to the point or place of beginning.

**APPENDIX 2**  
**Health and Safety Plan**  
**and**  
**Community Air Monitoring Plan**



TECHNOLOGIES, INC

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PH (813) 248-8558 FAX (813) 248-8656  
[www.A2LTechnologies.com](http://www.A2LTechnologies.com)

## **HEALTH AND SAFETY PLAN**

**Clabattoni Brownfields Site**  
**Site No. : C344068**  
**153 South Liberty Drive**  
**Stony Point, NY**  
**Rev. February 18, 2008**

### **Prepared for:**

**New York State Department of Health**  
**145 Huguenot Street**  
**New Rochelle, New York 10801-5228**

**and**

**New York State Department of Environmental Conservation**  
**21 South Platt Corners Road**  
**New Paltz, NY 12561-1620**

### ***Prepared By:***

**A2L TECHNOLOGIES, INC.**  
**10220 Harney Road NE**  
**Thonotosassa, Florida 33592**  
**(813) 248-8558**

**February 22, 2008**

**Project #050409**

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## ATTACHMENT I

## **HEALTH AND SAFETY PLAN**

### **CIABATTONI BROWNFIELDS SITE STONY POINT, ROCKLAND COUNTY, NEW YORK**

The Health and Safety Plan (HASP) is intended to provide a basic framework for the implementation of the site assessment at the **CIABATTONI BROWNFIELDS SITE** located at 153 South Liberty Drive, Stony Point, New York. The work is being conducted under the New York State Brownfields Program. The procedures provided herein are intended as a guide for all *A2L Technologies, Inc.* (A2L) and subcontractor employees who will be involved in the performance of the project.

The primary objective of the HASP is to establish work-safety guidelines, requirements and procedures before field activities begin. The following information was prepared specifically for field operations. The approved HASP will be provided to personnel to aid in accomplishing the following objectives:

- ▶ Monitoring the effectiveness of the HASP as it is conducted in the field by performing field operation audits;
- ▶ Following up on any necessary corrective actions;
- ▶ Interacting with NYSDOH and NYSDEC representatives regarding modifications of health and safety actions, and
- ▶ Stopping work should work-site conditions warrant such action.

All personnel will have had health and safety training in accordance with OSHA Standard 29 CFR 1910.120.

## **1.0 ORGANIZATION AND RESPONSIBILITIES**

The organization and responsibilities for implementing safe site-investigation procedures, and specifically for the requirements contained in this manual, are described in this section.

### **1.1 Project Manager**

The A2L Health and Safety Officer, Larry G. Schmaltz, P.E., will be responsible for the overall implementation and monitoring of the health and safety program by:

- ▶ Ensuring appropriate protective equipment is available and properly used by personnel, in accordance with the HASP;
- ▶ Ensuring personnel health and safety awareness by providing them with proper training and familiarity with procedures and contingency plans;
- ▶ Ensuring all personnel are apprised of potential hazards associated with the site conditions and operations;
- ▶ Supervising and monitoring the safety performance of personnel to ensure their work practices are conducted in accordance with the HASP;
- ▶ Correcting any work practices or conditions that would expose personnel to possible injury or hazardous condition;
- ▶ Communications with the onsite Health and Safety Officer (HSO);
- ▶ Promptly initiating emergency alerts, and
- ▶ Communicating with the client and/or regulatory agency representatives.

### **1.2 Onsite Health and Safety Officer**

The onsite Health and Safety Officer (HSO) will be the designated representative of A2L (Joseph Clemis) and will be present during site activities. The onsite HSO will be accountable for the direct supervision of personnel from the subcontractors and other A2L personnel with regard to:

- ▶ Health and safety program compliance;
- ▶ Maintaining a high level of health and safety consciousness among employees at the work site; and
- ▶ reporting accidents and undertaking corrective action.

### **1.3 Field Personnel**

Field personnel will report directly to the onsite HSO, and will be required to:

- ▶ Be familiar with, and conform to, provisions of the HASP;
- ▶ Ensure that they are well informed of potential hazards at the work site and exercise informed consent in their work;
- ▶ Report any accidents or hazardous conditions to the onsite HSO; and
- ▶ Have a complete familiarity with their job requirements and the health and safety procedures involved.

Prior to the start of field activities, a meeting will be held to discuss the potential hazards at the site, with a review of the required protective clothing and procedures observed at this site. As needed, daily meetings will be held to discuss any changes in the hazards.

## **2.0 HAZARD EVALUATION**

Phase II Environmental Site Assessment activities involving groundwater and soils sampling have identified the primary organic and inorganic chemical constituents of concern at the Site include gasoline constituents, chromium and lead. The objective of this HASP is the protection of personnel and adjacent property occupants from exposure to these substances by inhalation, oral ingestion, dermal absorption, or eye contact.

Material and Safety Data Sheets (MSDS) for gasoline, chromium and lead summarizing the potential exposure hazards are included as ATTACHMENT 1.

The onsite HSO is responsible for determining the level of personal protection equipment required. The HSO will perform a preliminary evaluation to confirm personal protective equipment requirements once the site has been entered. When work-site conditions warrant, the onsite HSO will modify the level of protection to be utilized. The existence of a situation more hazardous than anticipated will result in the suspension of work until the Project Manager and client representative have been notified and appropriate instructions have been provided to the field team.

### **3.0 COMMUNITY AIR MONITORING PLAN**

Pursuant to NYSDEC Draft DER-10, Appendix 1A, a Community Air Monitoring Plan (CAMP) is required for any intrusive work performed at this site. A CAMP requires real-time monitoring for volatile organic compounds (VOC) and particulates (i.e. dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e. off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The CAMP helps to confirm that work activities do not spread contamination off-site through the air. Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas. Previous investigations at the Site have identified that volatile organic compounds and chromium are the primary contaminants of concern.

#### **3.1 VOC Monitoring, Response Levels and Actions**

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations will be measured at the start of each



workday and periodically thereafter to establish background conditions. The monitoring work will be performed using a portable hand held photoionization detector (PID), appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated using 100 ppm isobutylene at the beginning of each day. The equipment will be capable of calculating and recording 15-minute running average concentrations, which will be compared to the levels specified below.

- ▶ If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- ▶ If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- ▶ If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown. All 15-minute readings will be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

### **3.2 Particulate Monitoring, Response Levels and Actions**

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration will be visually assessed during all work activities.

- ▶ If the downwind PM-10 particulate level is 100 micrograms per cubic meter ( $\text{mcg}/\text{m}^3$ ) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150  $\text{mcg}/\text{m}^3$  above the upwind level and provided that no visible dust is migrating from the work area.
- ▶ If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150  $\text{mcg}/\text{m}^3$  above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150  $\text{mcg}/\text{m}^3$  of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for State (DEC and DOH) personnel to review.

#### **4.0 LEVELS OF PROTECTION**

The level of protection anticipated to perform work on this investigation is Level D. Only protective equipment deemed suitable by the onsite HSO for use at the work site would be worn. Any changes in protection levels shall be documented by the onsite HSO.

Field personnel will exercise informed judgement on protective equipment requirements at active work sites or at work sites that have been repeatedly occupied without apparent harm. In any case where doubt exists, the safest course of action will be taken. The protective equipment that may be used by field personnel is listed below.

##### **4.1 Level D**

- ▶ Hard hat;
- ▶ Safety glasses, shatterproof prescription glasses, or chemical splash goggles;
- ▶ Boots/shoes, leather or chemical-resistant, steel toe and shank;
- ▶ Coveralls, and
- ▶ Chemical-resistant gloves.

At a minimum, protective headgear, including protective hearing devices, eyewear and footwear will be worn at all times by personnel working around the excavation and drilling equipment. When work-site conditions dictate, protective gloves and chemical-resistant boots shall be required for those personnel handling contaminated soils and water.

Should consistent levels of organic vapor concentrations greater than 25 ppm above background levels be detected by the PID in the work area, work will stop and all personnel will leave the work area. The Project Manager and the HSO have chosen a level of 25 ppm because it provides an adequate safety margin before the compounds of concern at the site present a threat to site personnel.

In the event work space concentrations rise above 25 ppm. Level C protection will be initiated as Level C protection is described below.

#### **4.2 Level C**

- ▶ Hard Hat;
- ▶ Boots, leather, steel toe and shank;
- ▶ Outer boots, chemical-resistant;
- ▶ Chemical-resistant gloves (Solvex);
- ▶ Tyvek or Saranex suit;
- ▶ Air purifying respirator assuming O<sub>2</sub> levels are greater than 19.5% oxygen.

If workspace concentrations rise above 50 ppm for a protracted period of time, work will be discontinued.

#### **4.3 Level B and Level A**

Work will not be conducted if Level B or Level A protection is required.

### **5.0 SAFE WORK PRACTICES AND HYGIENE**

In addition to the use of protective equipment, other procedures will be followed to minimize risk:

- ▶ All consumptive activities, including eating, chewing gum, drinking, or smoking are prohibited during the monitoring well installation, trenching, sampling, and decontamination activities;
- ▶ An adequate source of potable water for emergency use will be available at the site (two liters per person per day);
- ▶ Fire extinguishers will be available at the work site for use on equipment or small fires when appropriate; and

- ▶ An adequately stocked first-aid kit will be maintained at the work site during operational hours.

Additional safe work practices include:

- ▶ Stand and work upwind from the well and rig to reduce the amount of vapors inhaled.
- ▶ Use protective clothing, especially gloves and goggles.
- ▶ Use care while sampling to prevent product from being splashed or spilled on skin and/or in eyes.
- ▶ Double check to make sure New York Dig Safely has been called and has marked all electrical, cable, and phone lines on the site.
- ▶ Stay clear of all operating equipment. Be aware of all equipment and in what mode the equipment is operating.

#### **5.1 Heat Stress**

In order to avoid heat stress, several preventive measures may be observed:

- ▶ Workers will drink a 16-ounce glass of water prior to work (in the morning and after lunch). Water will be contained in a cooler, maintained at a temperature below 60F. Workers will be encouraged to drink approximately every 29 minutes during days of extreme heat.
- ▶ In extreme hot weather, field activities will be conducted in the early mornings and late afternoons.
- ▶ Rest breaks in cool or shaded areas will be enforced as needed.
- ▶ Toilet facilities will be made available at or near the site.
- ▶ Be aware of the signs of frostbite and take immediate remedial measures.
- ▶ Good hygiene practices will be encouraged, stressing the importance of

allowing the clothing to dry during rest periods. Anyone who notices skin problems should receive medical attention immediately.

- ▶ If there are support personnel available outside the work zone, they should observe the workers in the exclusion zone to monitor signs of stress, frequency of breaks, etc.

## **6.0 WORK ZONE**

To prevent unauthorized personnel from entering areas where active operations are being performed, the area enclosing the operation will be marked with flagging.

This zone will be entered in Level D protection. However, individual work sites within the zone may require higher levels of protection based on air monitoring results during the various activities. If this becomes the case, separate work sites will be established based on the level of protection required. Field personnel are instructed to leave the area if monitoring shows readings above the permissible exposure limits.

## **7.0 DECONTAMINATION**

An area will be set aside within the work zone for decontamination. The type of decontamination procedures will be based on the level of protection required. Decontamination of Level D protective wear may consist of brushing heavily soiled boots to remove soils, rinsing gloves, and safety glasses (and overboots, if worn) with water, and removing and storing coveralls in plastic bags before leaving the work zone, if heavily soiled or suspected of having been in contact with site contaminants.

## **8.0 CONTINGENCY PLAN FOR EMERGENCIES**

In the event of a safety health emergency, appropriate corrective measures must

immediately be taken to assist those who have been injured or exposed and to protect others from hazard. The onsite HSO will be notified of the incident immediately. If necessary, first aid will be rendered.

Onsite personnel will report any accident to the onsite HSO and an accident report form filled out. The following are the emergency contacts for this project:

**A2L Technologies, Inc.**  
Health & Safety Officer  
(813) 248-8558

Larry G. Schmaltz

**Police**  
Emergency Ambulance/Police

911

**Hospital**  
Helen Hayes Hospital  
Route 9W  
West Haverstraw, NY 10993  
(845)786.4000

#### **8.1 Directions to Hospital**

Directions From: Ciabattoni Brownfields Site

Take Liberty Drive (9W) South approximately 0.5 mile on West side of roadway.

#### **9.0 TRAINING**

All site workers, including site managers, will be questioned by the onsite HSO that the field personnel have been trained in the proper use of protective clothing and equipment in accordance with 29 CFR Part 1910.120, including:

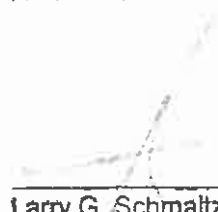
- Purpose of wearing respirators;
- How the respirator works;
- Limitations;
- Fit testing;
- Maintenance; and

- ▶ Maintenance; and
- ▶ Conditions of use

#### **10.0 MEDICAL SURVEILLANCE**

The HSO will insure that each site worker involved participates in an ongoing medical surveillance program.

**A2L TECHNOLOGIES, INC.**



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**Larry G. Schmaltz, P.E.**  
**Health & Safety Officer**



TEXACO REFINING & MARKETING -- 00365 TEXACO UNLEADED - AUTOMOTIVE GASOLINE  
MATERIAL SAFETY DATA SHEET  
NSN: 9130001487102  
Manufacturer's CAGE: 2R503  
Part No. Indicator: B  
Part Number/Trade Name: 00365 TEXACO UNLEADED

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#### General Information

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Item Name: AUTOMOTIVE GASOLINE  
Company's Name: TEXACO REFINING AND MARKETING INC  
Company's Street: 1111 RUSK ST  
Company's City: HOUSTON  
Company's State: TX  
Company's Country: US  
Company's Zip Code: 77002-3310  
Company's Emerg Ph #: 914-831-3400 800-424-9300(CHEMTREC)  
Company's Info Ph #: 512-459-6543  
Distributor/Vendor # 1: SCHULTE OIL CO (405-262-3121)  
Distributor/Vendor # 1 Cage: 4R019  
Record No. For Safety Entry: 024  
Tot Safety Entries This Sit#: 053  
Status: FE  
Date MSDS Prepared: 15DEC92  
Safety Data Review Date: 22JUL93  
Supply Item Manager: KY  
MSDS Preparer's Name: MANAGER,PRODUCT SERVICES  
Preparer's Company: TEXACO INC.  
Preparer's St Or P. O. Box: P. O. BOX 509  
Preparer's City: BEACON  
Preparer's State: NY  
Preparer's Zip Code: 12508  
MSDS Serial Number: BRFLK  
Specification Number: VV-G-1609  
Spec Type, Grade, Class: REGULAR UNLEADED  
Hazard Characteristic Code: F2  
Unit Of Issue: GL  
Unit Of Issue Container Qty: BULK  
Type Of Container: BULK  
Net Unit Weight: UNKNOWN  
NRC/State License Number: NONE  
Net Propellant Weight-Ammo: NONE

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#### Ingredients/Identity Information

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Proprietary: NO  
Ingredient: GASOLINE  
Ingredient Sequence Number: 01  
Percent: 95.99.9  
NIOSH (RTECS) Number: LX3300000  
CAS Number: 8006-61-9  
OSHA PEL: 300 PPM/500 STEL  
ACGIH TLV: 300 PPM/500STEL;9293  
Other Recommended Limit: NONE RECOMMENDED

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Proprietary: NO

**Ingredient: HYDROCARBON GAS CONTAINED IN INGREDIENT #1**

**Ingredient Sequence Number: 02**

**Percent: UNKNOWN**

**NIOSH (RTECS) Number: MW3860000**

**OSHA PEL: NOT ESTABLISHED**

**ACGIH TLV: NOT ESTABLISHED**

**Other Recommended Limit: NONE RECOMMENDED**

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**Proprietary: NO**

**Ingredient: OLEFINS**

**Ingredient Sequence Number: 03**

**Percent: UNKNOWN**

**NIOSH (RTECS) Number: 10007950L**

**OSHA PEL: NOT ESTABLISHED**

**ACGIH TLV: NOT ESTABLISHED**

**Other Recommended Limit: NONE RECOMMENDED**

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**Proprietary: NO**

**Ingredient: BENZENE (SARA III)**

**Ingredient Sequence Number: 04**

**Percent: 2-3.5**

**NIOSH (RTECS) Number: CY1400000**

**CAS Number: 71-43-2**

**OSHA PEL: 1PPM/5STEL;1910.1028**

**ACGIH TLV: 10 PPM: A2; 9293**

**Other Recommended Limit: NONE RECOMMENDED**

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**Proprietary: NO**

**Ingredient: METHYL TERT-BUTYL ETHER (SARA III)**

**Ingredient Sequence Number: 05**

**Percent: 0-15**

**NIOSH (RTECS) Number: KN5250000**

**CAS Number: 1634-04-4**

**OSHA PEL: NOT ESTABLISHED**

**ACGIH TLV: NOT ESTABLISHED**

**Other Recommended Limit: NONE RECOMMENDED**

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#### **Physical/Chemical Characteristics**

**Appearance And Odor: LIQUID;LIGHT STRAW TO LIGHT RED;GASOLINE-LIKE ODOR**

**Boiling Point: >90F,>32C**

**Vapor Pressure (MM Hg/70 F): 465-775**

**Vapor Density (Air=1): 3-4**

**Specific Gravity: .7-.77**

**Evaporation Rate And Ref: UNKNOWN**

**Solubility In Water: SLIGHT**

**Percent Volatiles By Volume: 100**

**Autoignition Temperature: 850F**

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#### **Fire and Explosion Hazard Data**

**Flash Point: -40F,-40C**

**Flash Point Method: COC**

**Lower Explosive Limit: 1.4**

**Upper Explosive Limit: 7.6**

**Extinguishing Media: DRY CHEMICAL,FOAM,CARBON DIOXIDE.**

**Special Fire Fighting Proc:** WATER MAY BE INEFFECTIVE ON FLAMES,BUT CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.  
**Unusual Fire And Expl Hazrds:** VAPORS ARE HEAVIER THAN AIR AND TRAVEL ALONG THE GROUND,POSING A FLASHBACK HAZARD(FLOWING GASOLINE GENERATES STATIC ELECTRICITY).

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#### Reactivity Data

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**Stability:** YES  
**Cond To Avoid (Stability):** HEAT,SPARKS ...OTHER SOURCES OF IGNITION.  
**Materials To Avoid:** STRONG OXIDIZERS.  
**Hazardous Decomp Products:** CARBON MONOXIDE,CARBON DIOXIDE,IRRITATING ALDEHYDES AND KETONES.  
**Hazardous Poly Occur:** NO  
**Conditions To Avoid (Poly):** NONE

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#### Health Hazard Data

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**LD50-LC50 Mixture:** LD50 ORAL RAT(EST)=5 G/KG  
**Route Of Entry - Inhalation:** YES  
**Route Of Entry - Skin:** YES  
**Route Of Entry - Ingestion:** NO  
**Health Haz Acute And Chronic:** EYES:IRRITANT.SKIN:THIS MATERIEL IS ABSORBED BY THE SKIN(HAZARD LEVEL HAS NOT BEEN DETERMINED);IRRITANT.INHAL:IRRITATES NOSE AND THROAT.MAY CAUSE ASPHYXIATION IN ENCLOSED SPACES.INGEST:MAY CAUSE LUNG DAMAGE IF VOMITTED AFTER SWALLOWING.CHRONIC:BENZENE CAUSES LEUKEMIA IN HUMANS.  
**Carcinogenicity - NTP:** YES  
**Carcinogenicity - IARC:** YES  
**Carcinogenicity - OSHA:** YES  
**Explanation Carcinogenicity:** CONTAINS Benzene [71-43-2] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.  
**HEADACHE,NAUSEA,VOMITING,DIZZINESS,DROWSINESS,EUPHORIA,LOSS OF COORDINATION,DISORIENTATION.**  
**Med Cond Aggravated By Exp:** REPEATED SKIN CONTACT MAY AGGRIVATE EXISTING DERMATITIS.  
**Emergency/First Aid Proc:** EYES:FLUSH WITH WATER FOR 15 MINUTES WHILE LIFTING LIDS.CALL PHYSICIAN.SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.CALL PHYSICIAN IF IRRITATION PERSISTS.INGEST:DO NOT INDUCE VOMITTING WITHOUT ADVICE OF A PHYSICIAN.GET PROMPT QUALIFIED MEDICAL ATTENTION.INHAL:REMOVE TO FRESH AIR.GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF NEEDED.GET PROMPT MEDICAL ATTENTION.

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#### Precautions for Safe Handling and Use

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**Steps If Matl Released/Spill:** ELIMINATE SOURCES OF IGNITION.VENTILATE AREA.AVOID BREATHING VAPORS;STAY UPWIND;USE A SCBA.REMOVE WITH A NON-FLAMMABLE ADSORBANT(EG.DIATOMACEOUS EARTH);PUT IN AN APPROPRIATE CONTAINER FOR DISPOSAL.KEEP OUT OF WATERWAYS.  
**Neutralizing Agent:** NONE  
**Waste Disposal Method:** THIS MATERIEL IS CONSIDERED TO BE HAZARDOUS PER RCRA,WITH REGARD TO BENZENE TOXICITY AND IGNITABILITY.

Precautions-Handling/Storing: TRANSPORT,HANDLE AND STORE PER OSHA 1910.106.GROUND AND BOND SHIPPING CONTAINERS.USE SPARK-PROOF TOOLS.  
Other Precautions: USE CAUTION WHEN OPENING CONTAINERS WHICH MAY BE UNDER PRESSURE.

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#### Control Measures

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Respiratory Protection: IN THE ABSENCE OF ENVIRONMENTAL CONTROLS A NIOSH ORGANIC VAPOR RESPIRATOR MAY BE USED;IN ENCLOSED SPACES A SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.  
Ventilation: ENVIRONMENTAL CONTROLS TO MAINTAIN TLV BELOW 500PPM.  
Protective Gloves: NITRILE,TEFLON,VITON.  
Eye Protection: GOGGLES/FACE SHIELD.  
Other Protective Equipment: CLOTHING TO PREVENT SKIN CONTACT.  
Work Hygienic Practices: WASH HANDS,SEPERATE WORK CLOTHES FROM STREET CLOTHES,LAUNDER WORK CLOTHES BEFORE REUSE,KEEP FOOD OUT OF THE WORK AREA.  
Suppl. Safety & Health Data: NONE.

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#### Transportation Data

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Trans Data Review Date: 93203  
DOT PSN Code: GTN  
DOT Proper Shipping Name: GASOLINE  
DOT Class: 3  
DOT ID Number: UN1203  
DOT Pack Group: II  
DOT Label: FLAMMABLE LIQUID  
IMO PSN Code: HRV  
IMO Proper Shipping Name: GASOLINE  
IMO Regulations Page Number: 3141  
IMO UN Number: 1203  
IMO UN Class: 3.1  
IMO Subsidiary Risk Label: -  
IATA PSN Code: RMF  
IATA UN ID Number: 1203  
IATA Proper Shipping Name: MOTOR SPIRIT  
IATA UN Class: 3  
IATA Label: FLAMMABLE LIQUID  
AFI PSN Code: MUC  
AFI Prop. Shipping Name: GASOLINE  
AFI Class: 3  
AFI ID Number: UN1203  
AFI Pack Group: II  
AFI Basic Pac Ref: 7-7  
Additional Trans Data: NONE

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#### Disposal Data

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#### Label Data

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Label Required: YES  
Technical Review Date: 22JUL93  
Label Date: 15DEC92  
MFR Label Number: 00365TEX UNLEAD

Label Status: G

Common Name: 00365 TEXACO UNLEADED

Signal Word: DANGER!

Acute Health Hazard-Moderate: X

Contact Hazard-Moderate: X

Fire Hazard-Severe: X

Reactivity Hazard-None: X

Special Hazard Precautions: EYES:IRRITANT.SKIN:THIS MATERIEL IS ABSORBED BY THE SKIN(HAZARD LEVEL NOT DETERMINED);IRRITANT.INHAL:IRRITATES NOSE AND THROAT.MAY CAUSE ASPHYXIATION IN ENCLOSED SPACES.INGEST:MAY CAUSE LUNG DAMAGE IF VOMITTED AFTER SWALLOWING.CHRONIC:BENZENE CAUSES LEUKEMIA IN HUMANS. FIRST AID: EYES:FLUSH WITH WATER FOR 15 MINUTES WHILE LIFTING LIDS. CALL PHYSICIAN.SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.

CALL PHYSICIAN IF IRRITATION PERSISTS.INGEST:DO NOT INDUCE VOMITING WITHOUT ADVICE OF A PHYSICIAN.GET PROMPT QUALIFIED MEDICAL ATTENTION.INIAL:REMOVE TO FRESH AIR.GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF NEEDED.GET PROMPT MEDICAL ATTENTION

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: TEXACO REFINING AND MARKETING INC

Label Street: 1111 RUSK ST

Label City: HOUSTON

Label State: TX

Label Zip Code: 77002-3310

Label Country: US

Label Emergency Number: 914-831-3400 800-424-9300(CHEMTREC)



**Science Lab.com**  
Chemicals & Laboratory Equipment



Health	2
Fire	1
Reactivity	0
Personal Protection	E

## Material Safety Data Sheet Chromium MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** Chromium

**Catalog Codes:** SLC4711, SLC3709

**CAS#:** 7440-47-3

**RTECS:** GB4200000

**TSCA:** TSCA 8(b) inventory: Chromium

**CH:** Not applicable.

**Synonym:** Chromium metal; Chrome; Chromium Metal  
Chips 2" and finer

**Chemical Name:** Chromium

**Chemical Formula:** Cr

#### Contact Information:

Sciencelab.com, Inc.  
14025 Smith Rd.  
Houston, Texas 77396

**US Sales:** 1-800-901-7247  
**International Sales:** 1-281-441-4400

**Order Online:** [Sciencelab.com](http://Sciencelab.com)

**CHEMTREC (24HR Emergency Telephone), call:**  
1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
Chromium	7440-47-3	100

**Toxicological Data on Ingredients:** Chromium LD50: Not available. LC50: Not available.

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

#### Potential Chronic Health Effects:

**CARCINOGENIC EFFECTS:** A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

The substance may be toxic to kidneys, lungs, liver, upper respiratory tract.

Repeated or prolonged exposure to the substance can produce target organs damage.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** 580°C (1076°F)

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** Some metallic oxides.

**Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of open flames and sparks, of heat.  
Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.  
Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use DRY chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:**

Moderate fire hazard when it is in the form of a dust (powder) and burns rapidly when heated in flame.  
Chromium is attacked vigorously by fused potassium chlorate producing vivid incandescence.  
Pyrophoric chromium unites with nitric oxide with incandescence.  
Incandescent reaction with nitrogen oxide or sulfur dioxide.

**Special Remarks on Explosion Hazards:**

Powdered Chromium metal + fused ammonium nitrate may react violently or explosively.  
Powdered Chromium will explode spontaneously in air.

## Section 6: Accidental Release Measures

### Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient. consult a specialist BEFORE handling this product.

### Exposure Limits:

TWA: 0.5 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States]

TWA: 1 (mg/m<sup>3</sup>) from OSHA (PEL) [United States]

TWA: 0.5 (mg/m<sup>3</sup>) from NIOSH [United States]

TWA: 0.5 (mg/m<sup>3</sup>) [United Kingdom (UK)]

TWA: 0.5 (mg/m<sup>3</sup>) [Canada] Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Metal solid.)

**Odor:** Odorless.

**Taste:** Not available.

**Molecular Weight:** 52 g/mole

**Color:** Silver-white to Grey.

**pH (1% soln/water):** Not applicable.



**Boiling Point:** 2642°C (4787.6°F)

**Melting Point:** 1900°C (3452°F) +/- 10 deg. C

**Critical Temperature:** Not available.

**Specific Gravity:** 7.14 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ioncity (In Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:**

Insoluble in cold water, hot water.

Soluble in acids (except Nitric), and strong alkalies.

#### **Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, incompatible materials

**Incompatibility with various substances:** Reactive with oxidizing agents, acids, alkalis.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:**

Incompatible with molten Lithium at 180 deg. C, hydrogen peroxide, hydrochloric acid, sulfuric acid, most caustic alkalies and alkali carbonates, potassium chlorate, sulfur dioxide, nitrogen oxide, bromine pentafluoride.

It may react violently or ignite with bromine pentafluoride.

Chromium is rapidly attacked by fused sodium hydroxide + potassium nitrate.

Potentially hazardous incompatibility with strong oxidizers.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

#### **Section 11: Toxicological Information**

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:**

LD50: Not available.

LC50: Not available.

**Chronic Effects on Humans:**

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for

human.) by IARC.

May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant) of inhalation.

Slightly hazardous in case of ingestion.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

May cause cancer based on animal data. There is no evidence that exposure to trivalent chromium causes cancer in man.

**Special Remarks on other Toxic Effects on Humans:**

**Acute Potential Health Effects:**

May cause skin irritation.

Eyes: May cause mechanical eye irritation.

Inhalation: May cause irritation of the respiratory tract and mucous membranes of the respiratory tract.

Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea.

**Chronic Potential Health Effects:**

Inhalation: The effects of chronic exposure include irritation, sneezing, redness of the throat, bronchospasm, asthma, cough, polyps, chronic inflammation, emphysema, chronic bronchitis, pharyngitis, bronchopneumonia, pneumoconiosis. Effects on the nose from chronic chromium exposure include irritation, ulceration, and perforation of the nasal septum. Inflammation and ulceration of the larynx may also occur.

Ingestion or Inhalation: Chronic exposure may cause liver and kidney damage.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## Section 15: Other Regulatory Information

**Federal and State Regulations:**

Connecticut hazardous material survey.: Chromium  
Illinois toxic substances disclosure to employee act: Chromium  
Illinois chemical safety act: Chromium  
New York release reporting list: Chromium  
Rhode Island RTK hazardous substances: Chromium  
Pennsylvania RTK: Chromium  
Minnesota: Chromium  
Michigan critical material: Chromium  
Massachusetts RTK: Chromium  
Massachusetts spill list: Chromium  
New Jersey: Chromium  
New Jersey spill list: Chromium  
Louisiana spill reporting: Chromium  
California Director's List of Hazardous Substances: Chromium  
TSCA 8(b) inventory: Chromium  
SARA 313 toxic chemical notification and release reporting: Chromium  
CERCLA: Hazardous substances.: Chromium: 5000 lbs. (2268 kg)

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances

**Other Classifications:**

WHMIS (Canada): Not controlled under WHMIS (Canada).

**DSCL (EEC):**

R40- Limited evidence of carcinogenic effect

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**HMIS (U.S.A.):**

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

**Protective Equipment:**

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/10/2005 08:16 PM

**Last Updated:** 10/10/2005 08:16 PM

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**Science Lab .com**  
Chemicals & Laboratory Equipment



Health	1
Fire	0
Reactivity	0
Personal Protection	E

## Material Safety Data Sheet Lead MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** Lead

Catalog Codes: SLL1291, SLL1669, SLL1081, SLL1459, SLL1834

CAS#: 7439-92-1

RTECS: OF7525000

TSCA: TSCA 8(b) Inventory: Lead

Cf#: Not available.

Synonym: Lead Metal, granular; Lead Metal, foil; Lead Metal, sheet; Lead Metal, shot

Chemical Name: Lead

Chemical Formula: Pb

**Contact Information:**

Sciencelab.com, Inc.  
14025 Smith Rd.  
Houston, Texas 77396

US Sales: 1-800-901-7247  
International Sales: 1-281-441-4400

Order Online: [Sciencelab.com](http://Sciencelab.com)

CHEMTREC (24HR Emergency Telephone), call:  
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	% by Weight
Lead	7439-92-1	100

Toxicological Data on Ingredients: Lead LD50: Not available. LC50: Not available.

### Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (Irritant), of eye contact (Irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

Slightly hazardous in case of skin contact (permeator)

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human) by IARC.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to blood, kidneys, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** Some metallic oxides.

**Fire Hazards in Presence of Various Substances:** Non-flammable in presence of open flames and sparks, of shocks, of heat.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use DRY chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** When heated to decomposition it emits highly toxic fumes of lead.

**Special Remarks on Explosion Hazards:** Not available.

#### Section 6: Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not

present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### Section 7: Handling and Storage

**Precautions:**

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.

**Exposure Limits:**

TWA: 0.05 (mg/m3) from ACGIH (TLV) [United States]

TWA: 0.05 (mg/m3) from OSHA (PEL) [United States]

TWA: 0.03 (mg/m3) from NIOSH [United States]

TWA: 0.05 (mg/m3) [Canada] Consult local authorities for acceptable exposure limits.

### Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Metal solid.)

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 207.21 g/mole

**Color:** Bluish-white. Silvery. Gray

**pH (1% soln/water):** Not applicable.

**Boiling Point:** 1740°C (3164°F)

**Melting Point:** 327.43°C (621.4°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 11.3 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (In Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Insoluble in cold water.

### **Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Incompatible materials, excess heat

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Can react vigorously with oxidizing materials.

Incompatible with sodium carbide, chlorine trifluoride, trioxane + hydrogen peroxide, ammonium nitrate, sodium azide, disodium acetylide, sodium acetylide, hot concentrated nitric acid, hot concentrated hydrochloric acid, hot concentrated sulfuric acid, zirconium.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

### **Section 11: Toxicological Information**

**Routes of Entry:** Absorbed through skin. Inhalation. Ingestion.

**Toxicity to Animals:**

LD50: Not available.

LC50: Not available.

**Chronic Effects on Humans:**

**CARCINOGENIC EFFECTS:** Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC.

May cause damage to the following organs: blood, kidneys, central nervous system (CNS).

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

**Acute Potential:**

**Skin:**

Lead metal granules or dust: May cause skin irritation by mechanical action.

Lead metal foil, shot or sheets: Not likely to cause skin irritation

**Eyes:**

Lead metal granules or dust: Can irritate eyes by mechanical action.



**Lead metal foil, shot or sheets:** No hazard. Will not cause eye irritation.

**Inhalation:**

In an industrial setting exposure to lead mainly occurs from inhalation of dust or fumes.

**Lead dust or fumes:** Can irritate the upper respiratory tract (nose, throat) as well as the bronchi and lungs by mechanical action. Lead dust can be absorbed through the respiratory system. However, inhaled lead does not accumulate in the lungs. All of an inhaled dose is eventually absorbed or transferred to the gastrointestinal tract. Inhalation effects of exposure to fumes or dust of inorganic lead may not develop quickly. Symptoms may include metallic taste, chest pain, decreased physical fitness, fatigue, sleep disturbance, headache, irritability, reduces memory, mood and personality changes, aching bones and muscles, constipation, abdominal pains, decreasing appetite. Inhalation of large amounts may lead to ataxia, delirium, convulsions/seizures, coma, and death.

**Lead metal foil, shot, or sheets.** Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count.

**Ingestion:**

**Lead metal granules or dust:** The symptoms of lead poisoning include abdominal pain or cramps (lead colic), spasms, nausea, vomiting, headache, muscle weakness, hallucinations, distorted perceptions, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness and other symptoms similar to that of inhalation. Acute poisoning may result in high lead levels in the blood and urine, shock, coma and death in extreme cases.

**Lead metal foil, shot or sheets:** Not an ingestion hazard for usual industrial handling.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## Section 15: Other Regulatory Information

**Federal and State Regulations:**

**California prop. 65:** This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Lead

**California prop. 65:** This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead

**California prop. 65:** This product contains the following ingredients for which the State of California has found to

cause reproductive harm (male) which would require a warning under the statute: Lead  
California prop. 65 (no significant risk level): Lead: 0.0005 mg/day (value)  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead  
Connecticut hazardous material survey.: Lead  
Illinois toxic substances disclosure to employee act: Lead  
Illinois chemical safety act: Lead  
New York release reporting list: Lead  
Rhode Island RTK hazardous substances: Lead  
Pennsylvania RTK: Lead

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):**

R20/22- Harmful by inhalation and if swallowed.

R33- Danger of cumulative effects.

R61- May cause harm to the unborn child.

R62- Possible risk of impaired fertility.

S36/37- Wear suitable protective clothing and gloves.

S44- If you feel unwell, seek medical advice (show the label when possible).

S53- Avoid exposure - obtain special instructions before use.

**HMIS (U.S.A.):**

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

**Protective Equipment:**

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Safety glasses.

#### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/10/2005 08:21 PM

**Last Updated:** 10/10/2005 08:21 PM

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**APPENDIX 3**  
**Inspection Checklist**

**Engineering Control/Institutional Control Inspection Checklist**

Ciabattoni Brownfield Site, C344068

153 South Liberty Drive

Stony Point, NY 10980

Description of Control	Yes	No
Asphalt paved areas in good condition, without cracks?		
Concrete sidewalk and building slab in good condition, without cracks?		
Have any subterranean excavation activities been performed at the site since the last inspection?		
Are the tenants or leasee aware of the necessity of following the Site Excavation Work Plan?		
Have any new buildings been constructed on the Brownfields Site?		
Has the Site Monitoring Plan been implemented.		
Is the Site currently used for commercial or industrial purposes?		
Are there any groundwater irrigation wells present on the Brownfield's site?		
Are the monitoring wells in satisfactory condition?		
Remarks:		

For each engineering and institutional control identified for the site, I certify that all of the following statements are true:

- > The institutional control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- > Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- > Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- > Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- > Use of the site is compliant with the environmental easement.
- > The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, \_\_\_\_\_, of \_\_\_\_\_ (business address), am certifying as Owner or Owner's Designated Site Representative and I have been authorized and designated by all site owners to sign this certification for the site.

No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and

Every five years the following certification will be added:

The assumptions made in the qualitative exposure assessment remain valid.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**APPENDIX 4**  
**Excavation Work Plan**

## **APPENDIX 4 – EXCAVATION WORK PLAN**

### **A-1 NOTIFICATION**

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the Department. Currently, this notification will be made to:

Mr. Edward Moore

Regional Hazardous Waste Remediation Engineer

21 S. Putt Corners Road, New Paltz, NY 12561

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this EWP,
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,
- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix 2 of this document,
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.



## **A-2 SOIL SCREENING METHODS**

Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC. Soil screening will be performed using an Organic Vapor Analyzer equipped with either Photoionization Detector (PID) or Flame Ionization Detector (FID). Samples will be collected into 16 ounce glass jars and immediately covered with aluminum foil. The tip of the FID or PID will be used to penetrate the foil and a reading of the headspace vapor will be recorded. In the case of the FID, a duplicate sample will be collected and analyzed using a methane filter, the results of which will be deducted from the total reading.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

## **A-3 STOCKPILE METHODS**

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

## **A-4 MATERIALS EXCAVATION AND LOAD OUT**

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

#### **A-5 MATERIALS TRANSPORT OFF-SITE**

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Truck transport routes are as follows: the site is accessible from South Liberty Drive on the east or through the entry on Filors Lane to the northwest of the current complex.- All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing

of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

#### **A-6 MATERIALS DISPOSAL OFF-SITE**

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

#### **A-7 MATERIALS REUSE ON-SITE**

Any residual material will be stockpiled and properly handled in accordance with all applicable local, state and federal regulations.

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

#### **A-8 FLUIDS MANAGEMENT**

All liquids to be removed from the site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but will be containerized and managed off site.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

#### **A-9 COVER SYSTEM RESTORATION**

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the Decision Document. The demarcation layer, consisting of orange snow fencing material or equivalent material will be placed or replaced to provide a visual reference to the top of the 'Remaining Contamination Zone', the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this Site Management Plan. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the 'Remaining Contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan. Refer to Figure 10 for a cross-section figure of the cover system.

#### **A-10 BACKFILL FROM OFF-SITE SOURCES**

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Refer to Table 8, below, for the specific soil quality standards. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

TABLE 8

(b) Restricted use soil cleanup objectives.

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Metals							
Arsenic	7440-38-2	16 <sup>f</sup>	16 <sup>f</sup>	16 <sup>f</sup>	16 <sup>f</sup>	13 <sup>f</sup>	16 <sup>f</sup>
Barium	7440-39-3	350 <sup>f</sup>	400	400	10,000 <sup>d</sup>	433	820
Beryllium	7440-41-7	14	72	590	2,700	10	47
Cadmium	7440-43-9	2.5 <sup>f</sup>	4.3	9.3	60	4	7.5
Chromium, hexavalent <sup>b</sup>	18540-29-9	22	110	400	800	1 <sup>e</sup>	19
Chromium, trivalent <sup>b</sup>	16065-83-1	36	180	1,500	6,800	41	NS
Copper	7440-50-8	270	270	270	10,000 <sup>d</sup>	50	1,720
Total Cyanide <sup>b</sup>		27	27	27	10,000 <sup>d</sup>	NS	40
Lead	7439-92-1	400	400	1,000	3,900	63 <sup>f</sup>	450
Manganese	7439-96-5	2,000 <sup>f</sup>	2,000 <sup>f</sup>	10,000 <sup>d</sup>	10,000 <sup>d</sup>	1600 <sup>f</sup>	2,000 <sup>f</sup>
Total Mercury		0.81 <sup>f</sup>	0.81 <sup>f</sup>	2.8 <sup>f</sup>	5.7 <sup>f</sup>	0.18 <sup>f</sup>	0.73
Nickel	7440-02-0	140	310	310	10,000 <sup>d</sup>	30	130
Selenium	7782-49-2	36	180	1,500	6,800	3.9 <sup>f</sup>	4 <sup>f</sup>
Silver	7440-22-4	36	180	1,500	6,800	2	8.3
Zinc	7440-66-6	2200	10,000 <sup>d</sup>	10,000 <sup>d</sup>	10,000 <sup>d</sup>	109 <sup>f</sup>	2,480
PCBs/Pesticides							
2,4,5-TP Acid (Silvex)	93-72-1	58	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 <sup>e</sup>	17
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 <sup>e</sup>	136
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 <sup>e</sup>	14
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04 <sup>e</sup>	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
delta-BHC	319-86-8	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	0.04 <sup>d</sup>	0.25
Dibenzofuran	132-64-9	14	59	350	1,000 <sup>c</sup>	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8 <sup>i</sup>	24 <sup>i</sup>	200 <sup>j</sup>	920 <sup>j</sup>	NS	102
Endosulfan II	33213-65-9	4.8 <sup>i</sup>	24 <sup>i</sup>	200 <sup>j</sup>	920 <sup>j</sup>	NS	102
Endosulfan sulfate	1031-07-8	4.8 <sup>i</sup>	24 <sup>i</sup>	200 <sup>j</sup>	920 <sup>j</sup>	NS	1,000 <sup>c</sup>
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2
<b>Semivolatiles</b>							
Acenaphthene	83-32-9	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	20	98
Acenaphthylene	208-96-8	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	107
Anthracene	120-12-7	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	1,000 <sup>c</sup>
Benz(a)anthracene	56-55-3	1 <sup>f</sup>	1 <sup>f</sup>	5.6	11	NS	1 <sup>f</sup>
Benzo(a)pyrene	50-32-8	1 <sup>f</sup>	1 <sup>f</sup>	1 <sup>f</sup>	1.1	2.6	22
Benzo(b)fluoranthene	205-99-2	1 <sup>f</sup>	1 <sup>f</sup>	5.6	11	NS	1.7
Benzo(g,h,i)perylene	191-24-2	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	1,000 <sup>c</sup>
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	1 <sup>f</sup>	3.9	56	110	NS	1 <sup>f</sup>
Dibenz(a,h)anthracene	53-70-3	0.33 <sup>g</sup>	0.33 <sup>g</sup>	0.56	1.1	NS	1,000 <sup>c</sup>
Fluoranthene	206-44-0	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	1,000 <sup>c</sup>
Fluorene	86-73-7	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	30	386
Indeno(1,2,3-cd)pyrene	193-39-5	0.5 <sup>f</sup>	0.5 <sup>f</sup>	5.6	11	NS	8.2
m-Cresol	108-39-4	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.33 <sup>g</sup>
Naphthalene	91-20-3	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
o-Cresol	95-48-7	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.33 <sup>e</sup>
p-Cresol	106-44-3	34	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.33 <sup>e</sup>
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8 <sup>e</sup>	0.8 <sup>e</sup>
Phenanthrene	85-01-8	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	1,000 <sup>e</sup>
Phenol	108-95-2	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	30	0.33 <sup>e</sup>
Pyrene	129-00-0	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	1,000 <sup>e</sup>
<b>Volatiles</b>							
1,1,1-Trichloroethane	71-55-6	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.33
1,2-Dichlorobenzene	95-50-1	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02 <sup>f</sup>
cis-1,2-Dichloroethene	156-59-2	59	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.25
trans-1,2-Dichloroethene	156-60-3	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1 <sup>e</sup>	0.1 <sup>e</sup>
Acetone	67-64-1	100 <sup>a</sup>	100 <sup>b</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33 <sup>e</sup>	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	100 <sup>a</sup>	0.12



Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Methyl tert-butyl ether	1634-04-4	62	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	0.93
Methylene chloride	75-09-2	51	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	12	0.05
n-Propylbenzene	103-65-1	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	3.9
sec-Butylbenzene	135-98-8	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	11
tert-Butylbenzene	98-06-6	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	100 <sup>a</sup>	100 <sup>a</sup>	500 <sup>b</sup>	1,000 <sup>c</sup>	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm).

NS=Not specified. See [Technical Support Document \(TSD\)](#).

#### Footnotes

<sup>a</sup> The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

<sup>b</sup> The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

<sup>c</sup> The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

<sup>d</sup> The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

<sup>e</sup> For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

<sup>f</sup> For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

<sup>g</sup> This SCO is derived from data on mixed isomers of BHC.

<sup>h</sup> The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

<sup>i</sup> This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

<sup>j</sup> This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.

## **A-11 STORMWATER POLLUTION PREVENTION**

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

Proper SPDES permit compliance measures will be employed at all times during any excavating or site redevelopment and can include: **Silt fencing; hay bales;** fiber storm drain covers, etc. of sufficient nature to eliminate untreated water leaving the site.

## **A-12 CONTINGENCY PLAN**

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills

hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

### **A-13 COMMUNITY AIR MONITORING PLAN**

The Community Air Monitoring Plan is presented within the site specific HASP developed for the site. The HASP is presented in Appendix 2 and contains the specificity necessary to perform all intrusive maintenance work anticipated at this site. All air monitoring points will be defined in the field by the environmental professional as dictated by daily site specific activities and wind patterns.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

### **A-14 ODOR CONTROL PLAN**

This odor control plan is capable of controlling emissions of nuisance odors off-site and on-site. Specific odor control methods to be used on a routine basis will include those methods described elsewhere in this section. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and

handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

#### **A-15 DUST CONTROL PLAN**

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

#### **A-16 OTHER NUISANCES**

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

**APPENDIX 5**  
**Monitoring Well Boring and Construction Logs**



# BORING LOG

Drill Rig: CME 75

Date Drilled: 5/12/2008

Logged By:

Boring Dia: 8 inches

Boring Number: MW-1/SB-1

Joe Clemis

Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
			NR			2" Granite Rock with silt
			NR			Light brown silt with very soft clay and cobbles
			NR	5		Boulder
			NR			Light brown silt with very soft clay and cobbles
			NR			
			NR	10		Rock, cobbles, silt, very soft clay
			NR			
			NR			
			NR	15		
			NR			
			NR			
			NR	20		Grey with red inclusions hard clay
			NR			Brown coarse sand with coarse gravel
			Well	25		

## Completion Notes:

Bentonite and cement grout from approximately 13.5' then 1' hydrated bentonite chips, then sand pack to 25' bls. NR = No Response

## Site:

Clabattol Brownfields Site  
153 South Liberty Drive  
Stony Point, New York 10980

Project No.: 050409.08

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TECHNOLOGIES, INC.

## BORING LOG

Drill Rig: CME 75

Date Drilled: 5/13/2008

Logged By:

Boring Dia: 8 Inches

Boring Number: MW-2/SB-2

Joe Clemis

Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
						2" Granite Rock with silt
			NR			Light brown silt with very soft clay and cobbles
			NR			
			NR	5		
			NR			
			NR	10		
			NR			
			NR	15		
			NR			
			NR	20		
			NR			Grey with red inclusions hard clay
			Wel			Boulder
				25		Brown coarse sand with coarse gravel

### Completion Notes:

Bentonite and cement grout from approximately 22.8' then 1' hydrated bentonite chips, then sand pack to 29.8' bis. NR = No Response

### Site:

Ciabattoni Brownfields Site  
153 South Liberty Drive  
Stony Point, New York 10980

Project No.: 050409.08

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A2L TECHNOLOGIES, INC.		BORING LOG				
Drill Rig: CME 75		Date Drilled: 5/14/2008		Logged By:		
Boring Dia: 8 Inches		Boring Number: MW-4/SB-4		Joe Clemis		
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
						2" Granite Rock with silt
			22.7			Brown silt with cobbles
			24.3			Brown concrete rubble
			NS	5		Black silt with cobbles
			120			
			57.4	10		Cobbles with brown silt
			NS			
			NS			
			NS	15		
			1074			Brown hard clay with red inclusions
			Wet	20		Coarse sand with coarse gravel
				25		

**Completion Notes:**  
 Bentonite and cement grout from approximately 17.79' then 1' hydrated bentonite chips, then sand pack to 24.79' bls.

**Site:**  
 Clabattoni Brownfields Site  
 153 South Liberty Drive  
 Stony Point, New York 10980

Project No.: 050409.08

Page 1

			BORING LOG						
Drill Rig:		CME 75		Date Drilled:		5/15/2008		Logged By:	
Boring Dia:		8 inches		Boring Number:		MW-5/SB-5		Joe Clemis	
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description			
			NR			Brown silt with cobbles			
			NR						
			NS	5		Boulder			
			0.6			Brown silt with cobbles			
			NS			Brown silt with coarse gravel			
			NS	10					
			NR						
			NR						
			NR	15					
			NR			Brown hard clay with red inclusions			
			NR	20					
						Coarse sand with coarse gravel			
				25					

**Completion Notes:**  
 Bentonite and cement grout to approximately 17.53' then 1' hydrated bentonite chips, then sand pack to 24.53' bts.

**Site:**  
 Ciabattone Brownfields Site  
 153 South Liberty Drive  
 Stony Point, New York 10980

Project No.: 050409.08

Page 1



TECHNOLOGIES, INC.

## BORING LOG

Drill Rig: CME 75

Date Drilled: 5/16/2008

Logged By:

Boring Dia: 8 inches

Boring Number: MW-6/SB-6

Joe Clemis

Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
			NS			Granite cobbles
			NS			
			NS	6		
			NS			
			NS	10		
			114			Green silt with loose clay and fine gravel
			63.8	15		
			177			
			817			Gray with red inclusions hard clay
			Wet	20		Brown coarse sand with coarse gravel
				25		

### Completion Notes:


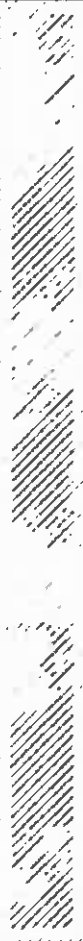
Bentonite and cement grout from approximately 20.9' then 1' hydrated bentonite chips, then sand pack to 27.9' bls. NS= Not sampled due to no recovery.

### Site:

Ciabattoni Brownfields Site  
153 South Liberty Drive  
Stony Point, New York 10980

Project No.: 050408.08

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			BORING LOG			
TECHNOLOGIES, INC.			Drill Rig: GeoProbe 6620DT	Date Drilled: 10/06/2009	Logged By:	
			Boring Dia: 2.5 Inches	Boring Number: SB-1	Joe Clemis	
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
<div style="text-align: center;">X</div> <div style="text-align: center;">X</div>			NR			Brown silt with clay and gravel
			NR			
			NR			
			10			
			1.6	5		
			NR			
			NR			
			10			
			4.8	10		
			1.2			
			10			
			3.3			
				15		

**Completion Notes:**




Not completed as a well. Sample S-1 collected from the 1.5 - 2.0' bls interval. Sample S-2 collected from the 10 - 11' bls interval. NOTE: NR = No Response

**Site:**

Ciabattoni Brownfields Site  
149 South Liberty Drive  
Stony Point, NY 10980

Project No.: 050409

Page 1

			BORING LOG			
TECHNOLOGIES, INC			Drill Rig: GeoProbe 6620DT	Date Drilled: 10/06/2009	Logged By:	
			Boring Dia: 2.5 Inches	Boring Number: SB-2	Joe Clemis	
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
<div style="text-align: center;">X</div>			NR			Brown silt with clay and gravel
			NR			
			NR			
			NR			
			NR	5		
			10			
			0.9			
			13			
			NR			
			NR	10		
			7.5			
			11.1			
			10.11			
			13.84			
				15		
<div style="text-align: center;">X</div>			15.26			Grey brown silt with clay and gravel
			15.93			
			10.39			

**Completion Notes:**



Not completed as a well. Sample S-3 collected from the 1.5 - 2.0' bls. interval. Sample S-4 collected from the 16 - 17' bls. interval. Duplicate sample (S-7) taken from 16 - 17' bls. interval.  
NOTE: NR = No Response

**Site:**

Ciabattoni Brownfields Site  
149 South Liberty Drive  
Stony Point, NY 10980

Project No.: 050409

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		BORING LOG				
		Drill Rig: GeoProbe 6620DT	Date Drilled: 10/06/2009	Logged By:		
		Boring Dia: 2.5 Inches	Boring Number: SB-3	Joe Clemis		
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
<div style="text-align: center;">X</div> <div style="text-align: center;">X</div>			NR			Brown silt with clay and gravel
			NR			
			1.2			
			1.3			
			NR			
			13	5		
			NR			
			NR			
				10		
				15		

**Completion Notes:**


Not completed as a well. Sample S-5 collected from the 1.5 - 2.0' bls interval. Sample S-6 collected from the 5 - 6' bls interval. NOTE: NR = No Response

**Site:**


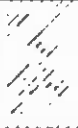
Ciabattoni Brownfields Site  
149 South Liberty Drive  
Stony Point, NY 10980

Project No.: 050409

Page 1

			BORING LOG			
TECHNOLOGIES, INC.			Drill Rig: GeoProbe 6620DT	Date Drilled: 10/06/2009	Logged By:	
			Boring Dia: 2.5 Inches	Boring Number: SB-4	Joe Clemis	
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
			NR			Brown silt with clay and gravel
			NR	5		
			NR			
			NR			
			NR			
			0.5	10		
			NR			
			NR			
			NR	15		
			0.2			

<b>Completion Notes:</b> Not completed as a well. Sample S-8 collected from the 0.0 - 2.0' bis interval. Sample S-9 collected from the 8 - 10' bis interval. NOTE: NR = No Response	<b>Site:</b> Ciabattoni Brownfields Site 149 South Liberty Drive Stony Point, NY 10980
Project No.: 050409	Page 1

			BORING LOG			
TECHNOLOGIES, INC.			Drill Rig: GeoProbe 6620DT	Date Drilled: 10/06/2009	Logged By:	
			Boring Dia: 2.5 Inches	Boring Number: SB-5	Joe Clemis	
Sample	Blow Counts	Completion	OVA (ppm)	Depth Feet	Lithology	Description
X			NR			Brown silt with clay and gravel
			NR			
				5		
				10		
				15		

<b>Completion Notes:</b> Not completed as a well. Sample S-10 collected from the 1.5 - 2.0' bls interval. NOTE: NR = No Response	<b>Site:</b> Ciabattoni Brownfields Site 149 South Liberty Drive Stony Point, NY 10980
	Project No.: 050409      Page 1



**APPENDIX 6**  
**Groundwater Monitoring Well Sampling Log Form**



**APPENDIX 7**  
**Quality Assurance Project Plan**



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TECHNOLOGIES, INC.

**GENERIC QUALITY ASSURANCE PROJECT PLAN  
(QAPP)  
FOR  
THE CIABATTONI BROWNFIELDS SITE  
ID # C344068**

**Prepared for:**

**New York State Department of Environmental Conservation  
And  
New York State Department of Health**

**Prepared by:**

**A2L Technologies, Inc.  
10220 Harney Road  
Thonotosassa, FL 33592**

**APRIL 2007**

**Environmental Assessment, Remedial Investigation, Physical Condition Assessments,  
Indoor Air Quality & Mold Assessments, Asbestos, Lead, PCBs, and Hydrocarbon Investigations, Landfill Engineering,  
Noise Assessment, Risk Assessment, Remedial Design, Construction Management, Construction Monitoring, Construction Management, Insurance Claim Representation**

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## **1.0 Introduction**

### **1.1 Purpose**

The principal purpose of this document is to specify quality assurance/quality control (QA/QC) procedures for the collection, analysis, and evaluation of data that will be legally and scientifically defensible.

### **1.2 Objectives**

The QAPP provides general information and procedures applicable to the activities and analytical program detailed in each site-specific Work Plan. This information includes definitions and generic goals for data quality and required types and quantities of QA/QC samples. The procedures address field documentation; sample handling, custody, and shipping; instrument calibration and maintenance; auditing; data reduction, validation, and reporting; corrective action requirements; and QA reporting specific to the analyses performed by the laboratories subcontracted by A2L.

## **2.0 Project Organization and Responsibility**

### **2.1 Overview**

The project management organization for each project is to provide a clear delineation of functional responsibility and authority. The project manager for A2L is the primary point of contact with the regulatory agency. He/she is responsible for development and completion of the site-specific investigation, project team organization and supervision of all project tasks. In this role, he/she will communicate directly with NYSDEC staff.

For the fieldwork, field teams consisting of A2L personnel and subcontractors will be assembled and will be responsible for implementing all aspects of the fieldwork. Several key activities will be performed as part of the field and analytical work. These activities include:

- Ensuring that sample collection, testing and data collection procedures are performed according to DER-10 requirements.
- That health and safety procedures as outlined in the site-specific health and safety plan (HASP) are followed.
- That the field QA/QC procedures are implemented.
- That laboratory analysis, data validation, data processing, and data QC

activities are performed in accordance with NYSDEC guidelines.

## **2.2 Responsibility**

The primary responsibilities for program management activities rest with the Project Manager (PM). The Project Manager will have ultimate contract responsibility for the project, including responsibility for the technical content of all engineering work. The Project Manager will direct, review and approve all project deliverables, schedule staff and resources, resolve scheduling conflicts and identify and solve potential program problems. They have authority to assign staff, negotiate and execute contracts and amendments, as well as execute subcontracts.

The Project Manager will have overall responsibility for the technical and financial aspects of this project. He/she will assign technical staff, maintain control of the project budget and schedule, prepare monthly progress reports, review and approve project invoices, evaluate the technical quality of the project deliverables as well as the adherence to QA/QC procedures and manage subcontractors. He/she will serve as A2L point of contact for this project.

The Program Quality Assurance Officer will monitor QC activities of program management and technical staff, as well as identify and report the needs for corrective action to the Project Manager. They will also conduct an internal review of all project deliverables prepared by A2L staff and sign off on the final investigation reports.

The Program Health and Safety Officer will review and make recommendations to the Subcontractors on health and safety plans for compliance with OSHA requirements. He has developed a Health and Safety plan for A2L, handle over-sight activities, evaluate the performance of health and safety officers and maintain required health and safety records.

The Health and Safety Site Supervisor/Coordinator will be responsible for ensuring that the Health and Safety Plan is implemented during field activities and that a copy of the site-specific Health and Safety Plan is maintained at the site at all times. He/she is also responsible for upgrading or downgrading personnel protection based on actual conditions at the time of the investigation. The Coordinator must also present an overview of the Health and Safety Plan to field personnel. He/she will contact the Program Health and Safety Officer if any questions or issues arise during the field activities that he/she cannot answer.

### **2.3 Subcontractors**

The following subcontractor services may be required as part of the site investigations and performed by subcontractors under A2L's supervision:

- Geophysical Survey
- Geoprobe Installation
- Drilling
- Well Installation
- Groundwater Sampling
- Chemical Analytical Services
- Site Survey
- Investigation Derived Waste Removal

### **3.0 Field Procedures**

A2L points of contact for the field investigation are the Site Manager and the onsite NYSDEC representative. Any minor changes in sampling activities that are within the proposed scope of the project will be documented each day in the field logbook and signed by both representatives. Any modifications that are inconsistent with the approved work plan are to be approved by NYSDEC prior to implementation.

#### **3.1 Documentation (Field Log Book)**

Information recorded in field log books include observations, data, calculations, time, weather, description of the data collection activity, methods, instruments, and results. Additionally, the logbook may contain descriptions of wastes, biota, geologic material, and site features including sketches maps, or drawings as appropriate.

##### **3.1.1 Preparation**

In addition to this QAPP, site personnel responsible for maintaining logbooks must be familiar with other site specific standard operating procedure (SOPs). These should be consulted as necessary to obtain specific information about equipment and supplies, health and safety, sample collection, packaging, decontamination, and documentation.

Field notebooks will be bound with lined, consecutively numbered pages. All pages must be numbered prior to initial use of the logbook. The following



information will be recorded inside the front cover of the logbook:

- Activity (if the log book is to be activity-specific).
- Person and organization to whom the book is assigned, and phone number(s)
- Start date

### **3.1.2 Operation**

Complete thorough notes of all field events are essential to a timely and accurate completion of this project. The field manager and/or field engineer is responsible for accounting for particular actions and times for these actions of the subcontractor while in the field. Also, identification (numbers and description) of field samples duplicates samples, and blank samples should also be noted in the field book. For a particular workday, the field book should contain the following:

- Field personnel name, contractors name, number of persons in crew, equipment used, weather, date, time, and location at start of day (boring number). Sample identification number, depth, amount of sample recovery, PID readings and soil descriptions. Description of any unusual surface or subsurface soil conditions. Record of Health and Safety monitoring; time, equipment and results. Record of site accidents or incidents. Record of any visitors. Materials and equipment used during borehole installation. Final daily summary of work completed including list of samples obtained.
- Any other data that may be construed as relevant information at a later date. The field logs should confirm the subcontractors data. Field notes should be photocopied weekly and returned to the project manager.

If a borehole is completed as a monitoring well, simply note this in the note book.

Monitoring well completion data is required in addition to the boring log information if the borehole is completed as a monitoring well. This data should include screen length, riser length, materials used, etc. Examples of monitoring well logs should be reviewed and adequate blank log forms obtained as needed.

### **3.1.3 Post-Operation**

To guard against loss of data due to damage or disappearance of notebooks, copies of completed pages will be made periodically (weekly, at a minimum) and submitted to the project manager. Documents that are separate from the logbook will be copied and submitted regularly and as promptly as possible to the project manager. This includes all automatic data recording media (printouts, logs, disks or tapes) and activity-specific data collection forms required by other SOPs.

At the conclusion of each activity or phase of site work, the individual responsible for the notebook will ensure all entries have been appropriately signed and dated, and that corrections were made properly (single lines drawn through incorrect information, then initialed and dated). The completed logbook will be submitted to the records file.

## **3.2 Sample Collection, Documentation and Identification**

The following procedures describe proper sample collection, and documentation to be included in field notebooks. Documentation includes describing data collection activities, logging sample locations, sample IDs, container labeling and chain-of custody forms. Procedures for sample classification to insure proper labeling of samples are also included.

### **3.2.1 Responsibilities**

The field manager and/or field technician is required to oversee drilling of the boreholes, collection of vapor, groundwater, and air samples, fill out field book logs, submit samples for analysis, COC forms and labeling of any waste-containing drums, if required. Also, the field manager and/or field engineer is required to adhere to the Site-Specific Health & Safety Plan. Field book entries should state starting time of monitoring, equipment used and results.

### **3.2.2 Sample Collection**

#### **3.2.2.1 Water Samples**

- VOCs, if analyzed, are to be sampled first. Prepreserved laboratory prepared vials will be utilized where practicable. Pour water slowly into the 40-ml vial, tipping the vial and allowing water to run down the side to prevent aeration at a rate of less than 100 ml/min. Fill until a meniscus forms and tightly seal the vial. Invert the vial and

check for bubbles. If bubbles are present, at a size of greater than five millimeters (5ml), additional sample water will be added and repeat. It will be necessary to discard the vial and use another if bubbles continue to appear after two refills.

- Remaining bottles should then be filled, again preventing aeration.
- If filtering is required (filtering is sometimes requested when samples are to be analyzed for metals and if turbidity is high ( $> 20$  ntu), use a dedicated 0.45 micron filter for each sample and filter prior to preservation.
- Label bottles with sample designation, project, date, time, preservative and required analysis prior to filling. Clear tape may be used to cover the completed label.
- Place sample in a cooler with ice to maintain temperature at  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . Samples will be maintained at this temperature throughout the sampling and transportation period. Chain of Custody and shipping procedures are discussed in See Section 3.3.

#### **3.2.2.2 Soil/Sediment/Sludge Samples**

- VOCs, if analyzed, are to be sampled first. Fill the jar completely such that there is no air space. VOCs must not be homogenized.
- For the remaining parameters, homogenize the samples with a decontaminated stainless bowl (Section 3.12) and trowel prior to filling the remaining bottles. Use of dedicated disposable trowels is permitted.
- Label bottles with sample designation, project, date, time, preservative and required analysis. Clear tape may be used to cover the completed label.
- Place sample in a cooler with ice to maintain temperature at  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . Samples will be maintained at this temperature throughout the sampling and transportation period. If multiple days worth of soil samples are collected during a work event, the daily storage of collected samples can be maintained in a refrigerated device that

keeps the soils at less than 0 degrees Centigrade. Chain of Custody and shipping procedures are discussed in Section 3.3.

#### **3.2.2.3 Soil Vapor/Ambient Air Samples**

- Soil Vapor samples will be collected with 6.0-liter summa canisters, with 2-hour flow controllers (regulators) and particulate filters (if required).
- Sub slab soil vapor samples will be collected with 6-liter summa canisters, with 2-hour flow controllers (regulators) and particulate filters (if required).
- Soil Vapor samples will be collected with 6-liter summa canisters, with flow controllers (regulators) and particulate filters (if required).
- Indoor and outdoor ambient air samples will be collected with 6-liter summa canisters, with flow controllers (regulators) and particulate filters (if required).
- Instantaneous grab samples may also be collected, as permitted by NYSDEC.
- Record vacuum prior to and at conclusion of sampling. Prior to sampling, vacuum should be 28-30 inches. At conclusion of sampling, vacuum should be 3 inches Hg +/- 1 inch Hg. Label summa canister and prepare for shipping. Summa canisters are not chilled or otherwise preserved.

#### **3.2.3 Drum Labeling**

Labeling of drums is essential for tracking hazardous materials. The responsibility of the contractor is to collect, handle, and store the drums, but the responsibility of field personnel is to label these drums appropriately. There is a significant cost implication if drums are not properly labeled. Unknown material must be properly characterized prior to offsite disposal. Non-hazardous petroleum contaminated wastes have been found at this site and it is anticipated that all drill cuttings and purge water will be characterized as such.

The following drum labeling procedures are to be adhered to:

- Field staff shall secure self adhesive Non-Hazardous petroleum

contaminated waste labels to the side of the drum prior to placing any material therein.

- Field staff shall print with an indelible marker on the label all information pertaining to the contents of the drum(s). If more than one drum is collected from the same borehole, each information card shall be numbered sequentially in parenthesis starting with the number one after the boring number. The information shall include:
  - Boring No.(s)
  - Date collected
  - Description of contents (i.e., soil cuttings, well water, etc.)
- Project Manager, upon receipt of the analytical data for the drums, shall confirm the Non-Hazardous petroleum contaminated waste designation for the waste material.
- Based on the review of the analytical data, the PM will determine and prepare the appropriate storage labels required:
  - Hazardous Waste label
  - Non-hazardous label
- The PM will fill out the appropriate labels.
- Field staff shall attach these labels to the appropriate drums.

It is noted that waste material is expected to be transported off-site during excavation of the stormwater retention tanks. Investigation derived wastes, soils, development water and purge water are expected to be drummed.

### **3.2.5 Sample Identification**

Each sample collected will be designated by an alpha or numeric code that will identify the type of sampling location, matrix sampled, and the specific sample designation (identifier).

Soil samples will be identified by the site boring number from which the sample was collected and the depth of the sample. For example a sample collected at soil boring 7 from the seven foot interval the sample will be identified as SB-7-7.

Groundwater samples will be identified by the monitoring well number associated with the well being sampled. For example the sample obtained from

monitoring well will be identified as MW-1.

The sample ID for the soil vapor will be identified by using the laboratory issued identification number associated with the supplied Summa canister.

Field blank and trip blank samples will be designated Field and Trip on the chain of custody.

### **3.3 Chain-of-Custody Procedures**

This section describes the procedures used to ensure that sample integrity and chain-of-custody are maintained throughout the sampling and analysis program. Chain-of-custody (COC) procedures provide documentation of sample handling from the time of collection until its disposal by a licensed waste hauler. This documentation is essential in assuring that each sample collected is of known and ascertainable quality.

The COC begins at the time of sample collection. Sample collection is documented in the field notebooks in accordance with the specified SOP. At the same time, the sampler fills out the label on the sample container with the following information:

- Site Name
- Sample ID code
- Required analyses
- Sampler initials
- Date and time of sample collection
- Preservative if any

#### **3.3.1 Chain-of-Custody Forms**

The COC forms are a paper trail system that follows the samples collected and indicates which laboratory analyses are to be performed on which samples. Each sample should be clearly labeled and listed on the COC. The laboratory will only perform analyses on samples indicated and all other samples should be indicated with a "HOLD" designation. By labeling a sample "HOLD", the laboratory will store the sample until further instruction is given. Do not check the request for analysis blocks on the COC for samples designated with "HOLD" Status. Never indicate duplicate or blank samples on a COC.

It is the responsibility of the field manager to coordinate COC forms and supply copies of all COC to the project manager for data management use.

A COC form is filled out for each sample type at each sampling location. Each time the samples are transferred to another custodian or to the laboratory, the signatures of the people relinquishing the sample and receiving the sample, as well as the time and date, are documented. Labels will be filled out with an indelible, waterproof, marking pen.

### **3.3.2 Chain-of-Custody Records**

The COC record is a two or three-part form. The laboratory retains the original form and the person relinquishing the samples keeps a copy of the form at the time of sample submittal. This form is then returned to the project manager or person in charge of data coordination.

The COC Record will be placed in a Ziplock bag and placed inside of all shipping and transport containers. All samples will be hand delivered or shipped by Federal Express or equivalent overnight service to the laboratory specified by the field manager. Samples should be packed so that no breakage will occur (e.g. placed upright in the cooler surrounded by packing materials). Sample vials may be placed on their sides if frozen.

## **3.4 Field Quality Control Samples**

In order to maintain QA/QC in both the field and the laboratory, additional samples such as trip blanks, duplicates, field blanks, performance evaluation samples and background samples will be collected. Each type of QA/QC sample is described below. Details of the QA/QC samples collected will be provided to the project data validator for use in their evaluation.

### **3.4.1 Quality Control for Soil Sampling**

Approximately five percent of all soil samples analyzed should be QA/QC samples. These samples act as a verification of appropriate field and laboratory procedures. These samples should be recorded in the field book but should not be identified on the Chain-of-Custody (COC). All QA/QC samples should be numbered sequentially with other field samples on the soil log form. The following is a breakdown of types of QA/QC samples that are to be taken:

#### **3.4.1.1 Duplicate Samples**

Approximately five percent of all soil samples analyzed should be

duplicate samples if conditions permit. Soil duplicates shall be field-homogenized samples. To ensure laboratory "blind" analyses, duplicate samples will be identified with the next sequential sample number on sample containers and the COC forms. The actual identification of the duplicate samples shall be recorded in the field book. Duplicate samples are collected from the same split spoon sampler, homogenized in the field and analyzed for the same compounds.

#### **3.4.2 Quality Control for Soil Vapor and Air Sampling**

Soil vapor and air sampling quality control will be established using a tracer compound, specifically, isopropanol or other approved tracer gas. All summa canisters must be certified to be free of contaminants in accordance with QA/QC protocol. Each connection along the sampling train will be covered with a cloth or paper towel containing isopropanol during the sampling period. Samples extracted found to contain greater than twenty percent of the tracer compound will be discarded.

#### **3.4.3 Quality Control for Groundwater Sampling**

The following is a breakdown of types of QA/QC samples that are to be taken:

##### **3.4.3.1 Trip Blanks**

Each cooler packed and shipped for aqueous VOC analysis should also contain a trip blank. Trip blanks are VOA vials filled with distilled water. These pre-filled vials are to be carried with the sample bottles and samples and should remain sealed the entire time. It should be documented in the field book which aqueous samples were collected and transported with the trip blank.

### **3.5 Premobilization**

Prior to initiating fieldwork, the following preparatory activities will be completed:

- Project mobilization.
- Utility clearance and permitting. The drilling subcontractor is responsible for contacting the appropriate local utility or Dig Safely New York service to locate subsurface and aboveground utilities in the vicinity of the soil gas



survey area.

- Site specific issues resolved.
- Sample analysis will be scheduled with the laboratory.
- Appropriate sample containers and preservatives for the various sample parameters will be obtained. Extra containers will be obtained to account for possible breakage.
- Field blank water will be obtained from the laboratory performing the analysis.
- Necessary field sampling and monitoring equipment will be obtained. Prior to use, the equipment will be checked to confirm that it is in good working condition, properly calibrated, and decontaminated.
- Materials necessary for personal protection and decontamination will be obtained.
- Coordinate with subcontractors.

### **3.6 Soil Vapor Sampling**

Soil vapor sampling will be conducted in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 and the NYSDEC Draft Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation, dated December 2002.

#### **3.6.1 Soil Vapor Probe Installation**

A Soil vapor probe installation at all locations will be performed according to the following procedures:

- At each location, a Geoprobe will be used to drive stainless steel rods equipped with polyethylene liners to desired depth (approximately 4 feet bgs).
- Once the probe is in place, retract the core establishing a void within the outer rod.
- Place the stainless steel soil vapor sampling implant, connected to polyethylene tubing, within the hollow rod to the bottom of the boring.
- The borehole will then be backfilled with sand to a minimum depth

of 6 inches above the screen interval.

- Bentonite chips or pellets will then be placed from approximately 6 inches above the screen to the ground surface and immediately hydrated. The bentonite will be allowed to set-up for a minimum of 24 hrs.

### **3.6.2 Tracer Testing**

Tracer tests will be conducted at all soil vapor locations to verify the integrity of the soil vapor probe seal and aboveground connections. Tracer tests will be conducted according to the following procedures:

- A cloth or paper towel will be saturated with isopropanol and wrapped around each fitting and around the tubing extending from the ground during sample collection.
- If laboratory analysis identifies less than twenty percent by volume of the tracer compound the probe seal is deemed acceptable and the sample collected representative.

### **3.6.3 Soil Vapor Sampling Procedures for Offsite Analysis**

Once the soil gas probe is installed and a tracer test is conducted, soil gas samples for offsite analysis will be collected according to the following procedures:

- The soil vapor samples will be collected using a laboratory-certified clean summa canister with a two-hour regulator ensuring that the sample flow rate less than 200 milliliters per minute (ml/min) to minimize outdoor air infiltration during sampling. The summa canisters will have a vacuum of 28 inches mercury (in Hg) prior to the collection of the soil vapor sample.
- Calculate the volume of the tubing including the screen interval as part of the volume. The tubing has an inside diameter of 0.17 inch and a volume of 4.46 ml/foot.
- Attach the vacuum pump and purge at least 3 tube volumes from the tubing. Syringes will be utilized to purge the tubing if obtaining a flow rate of 200 ml/min is difficult with vacuum pump.

- After purging is complete, the tubing will be connected to the summa canister.
- Record the initial pressure in the stainless steel summa canister to be used for the sample prior to connecting the tubing. The samples will be collected using laboratory-certified clean summa canisters with flow regulators and a vacuum of 28 in Hg. Vacuum readings in the canister should be approximately 28-30 inches Hg. If no vacuum reading is obtained, use a different canister as this indicates the canister was not properly evacuated.
- Connect the end of the tubing directly to the summa canister intake valve.
- Collect the sample into the summa canister, which will be provided by the approved laboratory. An additional canister and regulator will be ordered as backup. Sample flow rate will not exceed 200 ml/min.
- When the vacuum gauge reads 2 inches Hg, close the valve. Sampling is complete. Record the final pressure reading in the summa canister.
- A2L personnel will label, pack and ship the samples to an NYSDOH ELAP-approved laboratory. The serial numbers for the summa canisters and the regulators will be recorded on the chain of custody. Custody seals will be placed on all coolers/packages containing laboratory samples during shipment.
- The field sampling team will maintain a sample log sheet summarizing the following:
  - sample identification.
  - date and time of sample collection
  - sampling height
  - serial numbers for summa canisters and regulators
  - sampling methods and devices
  - purge volumes
  - volume of soil vapor extracted

- vacuum of summa canisters before and after sample collection
- apparent moisture content (dry, moist, saturated, etc.) of the sampling zone
- chain of custody protocols and records used to track samples from sampling point to analysis.

It is critical to ensure that moisture does not enter the summa canister which can compromise the analytical results.

### **3.7 Temporary Port Sub-Slab Soil Vapor Sampling Procedures for Offsite Analysis**

The New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory shall be completed for each structure where indoor air testing is being conducted. Sub-slab soil gas samples for off site analysis will be collected according to the following procedures:

- Prior to installation of the sub-slab vapor probe, the building floor should be inspected and any penetrations (cracks, floor drains, utility perforations, sumps, etc.) should be noted and recorded. Probes will be installed at locations determined and approved within the Remedial Investigation Work Plan (RIWP) and where the potential for ambient air infiltration via floor penetrations is minimal.
- A hammer drill with a 1/2 inch diameter drill bit will be used to advance a boring to a depth of approximately three to six inches beneath the slab. When drilling is complete, clean around drilled area.
- Fill the subslab void with clean glass beads to approximately two inches below the bottom of the slab.
- Insert probe constructed with 1/4 inch outer diameter, 0.17 inch inner diameter food grade polyethylene tubing to the top of the glass beads. The tubing should not extend further than 2 inches into the sub-slab material.
- The annular space between the borehole and the sample tubing will be filled and sealed with bees wax to the surface of the slab.
- Conduct tracer testing in accordance with the procedures detailed in Section 3.6.2 above.

- The tubing will be connected to a low-flow sample pump. A three-way valve will be used to allow purging of all the lines. Flow rates for both purging and collection must not exceed 200 milliliters per minute to minimize the ambient air infiltration during sampling.
- Record the initial pressure in the stainless steel SUMMA canister to be used for the sample prior to connecting the tubing. The samples will be collected using laboratory-certified clean summa canisters with flow regulators and a vacuum of 28 inches Hg +/- 2 inches. Vacuum readings in the canister should be approximately 28-30 inches Hg. If no vacuum reading is obtained, use a different canister as this indicates the canister was not properly evacuated.
- The end of the tubing will be connected directly to the summa canisters regulator intake valve via the three-way valve. Flexible silicone tubing will be used at a minimum and as a tubing adapter only. The sample shall be collected with a 6 Liter laboratory-certified summa canister with dedicated regulator set for a 2 hour sample collection.
- Collect the sample tubing to the Summa canister, which will be provided by the laboratory. An additional canister and regulator will be ordered as backup. Sample flow rate will not exceed 200 ml/min.
- When the vacuum gauge reads 2 inches Hg, close the valve. Sampling is complete. Record the final pressure reading in the summa canister.
- A2L personnel will label, pack and ship the samples to an NYSDOH ELAP-approved laboratory. The serial numbers for the SUMMA canisters and the regulators will be recorded on the chain of custody. Custody seals will be placed on all coolers/packages containing laboratory samples during shipment.
- Remove the sample port and patch the floor with concrete or an appropriate concrete patching material.

When sub-slab vapor samples are collected, the following actions should be taken to document conditions during sampling and ultimately to aid in the interpretation of the sampling results:

- historic and current storage and uses of volatile chemicals should be

- identified, especially if sampling within a commercial or industrial building (e.g., use of volatile chemicals in commercial or industrial processes and/or during building maintenance);
- the use of heating or air conditioning systems during sampling should be noted;
- floor plan sketches should be drawn that include the floor layout with sampling locations, chemical storage areas, garages, doorways, stairways, location of basement sumps or subsurface drains and utility perforations through building foundations, HVAC system air supply and return registers, compass orientation (north), footings that create separate foundation sections, and any other pertinent information should be completed;
- outdoor plot sketches should be drawn, as necessary, that include the building site, area streets, outdoor air sampling locations (if applicable), compass orientation (north), and paved areas;
- weather conditions (e.g., precipitation and indoor and outdoor temperature) and ventilation conditions (e.g., heating system active and windows closed) should be reported; and
- any pertinent observations, such as spills, floor stains, smoke tube results, odors and readings from field instrumentation (e.g., vapors via PID, Jerome Mercury Vapor Analyzer, etc.), should be recorded.

The field sampling team should maintain a sample log sheet summarizing the following:

- sample identification,
- date and time of sample collection,
- sampling depth,
- identity of samplers,
- sampling methods and devices,
- soil vapor purge volumes,
- volume of soil vapor extracted,
- if canisters used, vacuum of canisters before and after samples collected,

- apparent moisture content (dry, moist, saturated, etc.) of the sampling zone, and
- chain of custody protocols and records used to track samples from sampling point to analysis.

### **3.8 Outdoor (Ambient) Air Sampling Procedures for Offsite Analysis**

All outdoor air samples will be collected with a laboratory-certified summa canister regulated for a 2-hour sample collection using a 6 Liter summa canister. The summa canister will be placed in such a location as to collect a representative sample from the breathing zone at four or six feet above the ground.

Personnel will avoid lingering in the immediate area of the sampling device while samples are being collected. Ambient air samples will be collected in a location of as far away as possible from any boring or dust generating activities.

The following actions will be taken to document conditions during ambient air sampling:

- Outdoor plot sketches will be drawn that include the building site, area streets, ambient air sample locations, the location of potential interferences, compass orientation, and paved areas.
- Weather conditions (e.g. precipitation, temperature, wind direction and barometric pressure)
- Any pertinent observations, such as odors, reading from field instruments, and significant activities in the vicinity (e.g. operation of heavy equipment) will be recorded.

The field sampling team will maintain a sample log sheet summarizing the following:

- sample identification,
- date and time of sample collection,
- sampling height,
- identity of samplers,
- sampling methods and devices,
- volume of air sampled,
- vacuum of canisters before and after samples collected, and
- chain of custody protocols and records used to track samples from

sampling point to analysis.

### **3.9 Decontamination**

All non-dedicated, non-disposal sampling equipment and tools used to collect samples for chemical analysis will be decontaminated prior to and between each sample interval using an Alconox rinse and potable water rinse prior to reuse. Unless disposable sampling equipment is used, the equipment will be decontaminated by the following procedure:

- Wash with the non-phosphate detergent
- Tap water rinse
- Deionized water rinse
- Air dry and wrap in aluminum foil, shiny side out

Additional cleaning of the drilling equipment with steam may be needed under some circumstances if elevated levels of contamination appear to be present using field monitoring equipment or visible stained soils. Decontamination fluids will be discharge to the ground surface unless visible sheen is detected either on the equipment or the fluids, at which point the decontamination water will be contained in a 55-gallon drum, staged and properly disposed.

### **3.10 Investigative Derived Waste**

All soil cuttings and purge water will be placed and dispersed on the ground unless visible contamination or elevated PID readings are observed. If contamination is present, investigative derived waste (IDW) will be contained and analyzed to determine the appropriate disposal methods.

#### **3.10.1 Waste Sampling**

Waste classification sampling will be determined by the disposal facility. Worst case analytical data obtained during sampling of soils and groundwater will be used to classify the waste for disposal.

The requirements for waste characterization will be determined by the disposal facility. The containers of waste will be stored in an remote area on the site until the analytical results are received and the waste can be characterized for disposal.



### **3.11 Soil Boring Logs**

Geological logging includes keeping a detailed record of drilling (or excavating) and a geological description of materials on a prepared form. Geological logs are used for all types of drilling and exploratory excavations and include descriptions of both soil and rock. Accurate and consistent descriptions are imperative.

#### **3.11.1 Boring Log**

When drilling in soils or unconsolidated deposits, the log should be kept within the prescribed field log book or on a standard Soil Boring Log Form. The following basic information should be entered on the heading of each log sheet:

- Project name and number
- Boring or well number
- Name of drilling contractor
- Drilling method and equipment

The following technical information is recorded on the logs:

- Depth of sample below surface
- Sample interval
- Sample type and number
- Length of sample recovered
- Soil description
- PID readings

In addition to the items listed above, all pertinent observations about drilling rate, equipment operation, or unusual conditions should be noted. Such information might include the following:

- Size of casing used and method of installation
- Rig reactions such as chatter, rod drops, and bouncing
- Drilling rate changes
- Material changes
- Zones of caving or heaving

#### **3.11.2 Soil Classification**

The soil description should be concise and should stress major constituents and characteristics. Soil descriptions should be given in a consistent order and

format. The following order is as given in ASTM D2488:

- Soil name. The basic name of the predominant constituent and a single-word modifier indicating the major subordinate constituent.
- Gradation or plasticity. For granular soil (sand or gravel) that should be described as well graded, poorly graded, uniform, or gap-graded, depending on the gradation of the minus 3-inch fraction. Cohesive soil (silts or clays) should be described as non-plastic, slightly plastic, moderately plastic, or highly plastic, depending on the results of the manual evaluation for plasticity as described in ASTM D2488.
- Particle size distribution. An estimate of the percentage and grain-size range of each of the soil's subordinate constituents with emphasis on clay-particle constituents. This description may also include a description of angularity. This parameter is critical for assessing hydrogeology of the site and should be carefully and fully documented.
- Color.
  - The color of the soil using Munsell notation.
- Moisture content.
  - The amount of soil moisture, described as dry, moist, or wet.
- Relative density or consistency. An estimate of density of a granular soil or consistency of a cohesive soil, usually based on standard penetration test results (see Table 3-2 and 3-3).
- Local geologic name. Any specific local name or a generic name (i.e., alluvium, loess). Also use of Unified Soil Classification System of symbols.

The soil logs should also include a complete description of any tests run in the borehole; placement and construction details of piezometers, wells, and other monitoring equipment; abandonment records; geophysical logging techniques used; and notes on readings obtained by air monitoring instruments.

- Additional data in sedimentary rocks includes:

- Sorting
- Cementation
- Density or compaction
- Rounding The core should be logged as quickly as possible after removal from the hole. Some materials may degrade rapidly upon exposure, resulting in apparently poor rock, which was not actually present in the subsurface.

Check carefully each core end and try to determine if the fracture is natural or mechanical in origin. Mechanical fractures often can be identified by their orientation, the absence of secondary coatings or filling and slickensides, and its fit with the adjacent core piece. If doubt exists, consider it a natural fracture. If it is determined that the fracture is mechanical, ignore it and consider the two pieces of core as a single piece.

### **3.12 Monitoring Well Installation**

This section provides procedures for well design and well construction to aid in the development of drilling subcontracts. Drilling operation and well development guidelines are presented to aid the reader in the oversight of the installation of monitoring wells.

The principal reason that monitoring wells are constructed is to collect groundwater samples that, upon analysis, can be used to delineate a contaminant plume and track movement of specific chemical or biological constituents. A secondary consideration is the determination of the physical characteristics of the groundwater flow system to establish flow direction, transmissivity, quantity, etc. The spatial and vertical locations of monitoring wells are important. Of equal importance are the design and construction of monitoring wells that will provide easily obtainable samples and yield reliable, defensible, meaningful information. In general, monitoring well design and construction follows production well design and construction techniques. However, emphasis is placed on the effect these practices may have on the chemistry of the water samples being collected rather than on maximizing well efficiency.

From this emphasis, it follows that an understanding of the chemistry of the suspected pollutants and of the geologic setting in which the monitoring wells are constructed plays a major role in determining the drilling technique and materials used.

### 3.12.1 Well Siting

The following procedures should be followed:

- Review and be familiar with pertinent proposal sections, specifications, and subcontractors contracts. Review and be familiar with any regulations governing how, where or when the well is drilled. Review and be familiar with data (supplied by the Client, or any other data available) used for program planning.
- Identify well site on a topographic map or other suitable project base map. Contact landowner at the beginning of well siting. Inquire whether the proposed drill locations will interfere with the landowner's established land use. Unless the property is owned by the client, the landowner is always contacted before entering the property, even if he is leasing back the property from the client.
- Check route to insure a drill rig can access the proposed well site. Plan routes that require the least disturbance of natural vegetation or natural countryside conditions and which would not require grading or other types of work by i.e., backhoes, etc.
- The well site should be reasonably level and absent of large boulders or other hazardous obstructions.
- Check to insure absence of buried high-pressure gas, oil or water lines. If any lines are present relocate the well site a safe distance away from them. Be sure to check with the subcontractor to insure his/her agreement.
- Check to insure absence of overhead power transmission lines. If any overhead power lines are present, relocate the well site a safe distance away from them. Be sure to check with the subcontractor to insure his/her agreement.
- Consult landowner about water source and access, and then notify the driller of these decisions.
- Explain to the driller the need for care and accurate retrieval of drill cuttings and, if necessary, placement and accounting of materials

during well completion.

- If necessary, request access agreement to the well site.

### **3.12.2 Well Design**

The following procedures should be followed:

- The monitoring wells for this site will be two inch diameter with 0.10 slotted screen.
- Annular space will be filled with 20/30 clean sand.
- A bentonite seal will be placed above the filter pack and hydrated prior to grouting.
- Portland cement and bentonite clay slurry will be used to grout the well to the surface.
- Bolt down steel vaults will be installed within the pad surrounding the exposed well installation.

### **3.12.3 Well Construction**

The following procedures should be followed:

#### **3.12.3.1 Final Design of Casing - Screen/Slotted Casing String(s)**

If there is any doubt about the final design of the casing string, based on data from the pilot hole or the individual drill holes scheduled for completion, verify the design with the hydrogeologist in charge.

It is the rig hydrogeologist's responsibility to insure adequate supplies are maintained at each well site even though it may be the contractors responsibility for supplying the materials.

#### **3.12.3.2 Installing Casing (Slotted/Screen Casing String(s))**

- Plastic or Polyvinylchloride (PVC) Casing - Join all 5 or 10 foot lengths of casing (blank and screen) by flush-joint threading. All pipe is to be cut with a cutting tool which leaves a smooth, square end.
- Seal the bottom on the casing-slotted/screen casing string with a cap screwed permanently in place.

#### **3.12.3.3 Installing Filter Material (Sand Pack)**

- Place the filter material downhole by gravity feed.
- The filter material shall be installed to levels pre-determined by the

hydrogeologist. The exact depth for each well is determined from the final well design. However, generally the top of the filter material will be a minimum of one foot above the top of the highest slotted/screened interval.

- Following placement of the filter material "sound" or "tag" this depth with the tremie pipe to insure it is at the prescribed level.

#### **3.12.3.4 Installing Bentonite Pellet Seal (Blanket)**

Following the installation of the filter material place a bentonite pellet blanket seal on top of the filter material to prevent contamination of the filter pack by the grout.

The actual amount of the annulus that is filled with bentonite pellets may vary from completion to completion but a minimum of 6 inches of the annulus should be filled with bentonite by gravity feed from the surface. The tremie pipe remains in the bore hold during gravity feed of the bentonite pellets.

#### **3.12.3.5 Grouting**

- Grout the annular space above the bentonite pellets as directed by the hydrogeologist.
- The grouted volume of annular space will vary from completion to completion, and sometimes within the same completion. Generally, if the annular space exceeds approximately 20 feet then the grouting is done in more than one stage. Take care to insure that the grout does not displace the bentonite seal or exceed (in weight) the collapse strength of the casing.
- The methods of mixing grout in the field are numerous. The first concern is that the slurry mixture is fluid enough for placement by tremie pipe and heavy enough to give the desired strength and sealing properties required. Rockland County Health Department Rules on grout content and consistency will be adhered to for all wells installed at this site. Mix the correct number of bags of cement with the water at a rate which prevents, clotting or settling out of dry, unmixed

cement. Usually this procedure is accomplished with a portable pump that sucks the water or cements mixtures in and then expels it under pressure through a hose that is used in a jetting fashion at the opposite end of the tank, pit or trough. Grout also can be mixed using a shovel or hoe. Generally, the grout is placed on the side of the tub, the bag is ruptured, and the cement is slowly added to the water. If the cement has hard spots place on a screen of approximately 1/4inch mesh attached to some type of frame that is placed across the mixing tub. The cement is then "filtered" for the larger, hard pieces or blocks.

- **Pumping or Pouring Grout**

Place the mixed grout above the bentonite pellets. The time between placement of the bentonite pellets and the grout should not be less than 15 to 20 minutes. This allows the pellets to settle to the top of the gravel pack and to begin to swell, while not allowing the grout to harden.

- The grout can either be pumped down the tremie pipe by same pump used for jetting or it can be poured by buckets through a funnel into the tremie pipe. Displacement of the bore hole fluid is almost certain because the grout slurry weighs more than the residual borehole fluid (10 or 11 pounds per gallon for the mud versus 14 to 18 pounds per gallon for the grout).
- Except under rare circumstances, grout is never poured from the surface nor is it ever poured into standing water.
- Grout the remainder of the hole by gravity feed from the surface as directed by the hydrogeologist. The quantity of grout placed from the surface should not exceed the collapse strength of the casing and should not be initiated prior to the curing of the grout seal above the bentonite pellets.

### **3.13 Monitoring Well Development**

All completed wells, whether the production or monitoring type, must be developed in order to facilitate unobstructed and continuous groundwater flow into the well. Well development is the process of cleaning the fines from the face of the borehole and the formation near the well screen. During any drilling process the side of the borehole becomes smeared with drilling mud, clays or other fines. This plugging action substantially reduces the permeability and retards the movement of water into the well screen. If these fines are not removed, especially in formations having low permeability, it then becomes difficult and time consuming to remove sufficient water from the well before obtaining a fresh groundwater sample because the water cannot flow easily into the well.

The development process is best accomplished for monitoring wells by causing the natural formation water inside the well screen to move vigorously in and out through the screen in order to agitate the clay and silt, and move these fines into the screen. The use of water other than the natural formation water is not recommended.

#### **3.13.1 Development Methods**

The following well development methods may be used including:

- **Surge Block** - A surge block is a round plunger with pliable edges such as belting that will not catch on the well screen. Moving the surge block forcefully up and down inside the well screen causes the water to surge in and out through the screen accomplishing the desired cleaning action. Surge blocks are commonly used with cable-tool drilling rigs, but are not easily used by other types of drilling rigs.
- **Surging and pumping** - Starting and stopping a pump so that the water is alternately pulled into the well through the screen and backflushed through the screen is an effective development method. Periodically pumping to the surface will remove the fines from the well and permit checking the progress to assure that development is complete.

Well development should continue until the water becomes free of sediment or contains sediment in a lesser amount than was initially present. Disposal of development water is site specific and should be discussed in the Sampling and



**Analysis Plan or Work Plan.**

**3.14 Low Flow Groundwater Sampling**

Low-flow sampling will be used for all groundwater sampling at this site and is appropriate at locations where disturbance of the media around the well screen needs to be minimized. A common concern is turbidity in the monitoring wells and the consequent undesirable effects on metals sampling results.

The low-flow purge and sample method creates less disturbance and agitation in the well, and therefore excess turbidity is not generated during the purging and sampling process. The result is a more rapid stabilization of turbidity and other parameters (pH, temperature, specific conductivity, and dissolved oxygen), and a sample more representative of conditions in the formation is collected.

The low flow purge and sample method consists of using a submersible, peristaltic or bladder pump to purge the well at a very low flow rate (0.5 to 1.5 liter/minute). The pump intake is set approximately in the middle of the wetted well screen, with a stagnant water column over the top of the pump. The well is purged at the low rate until the field parameters (temperature, pH, specific conductivity, turbidity, dissolved oxygen, and pH) have stabilized. The sample is then collected directly from the pump discharge at a low flow rate.

- Check and record the condition of the well for any damage or evidence of tampering.
- Remove the well cap.
- Measure and record the depth to water with an electronic water level device and record the measurement in the field logbook or on the groundwater sampling log sheet. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or drilling logs. Calculate volume of the water column by depth of water column times the cross-sectional area of the well.
- Lower pump to desired sampling depth. During purging, monitor the water level and field parameters (temperature, pH, turbidity, specific conductance and dissolved oxygen) approximately every 3 to 5 minutes. Continue

monitoring until the water level stabilizes and field parameters have stabilized to within 10 percent (plus or minus 5 percent) over a minimum of three readings. Turbidity and dissolved oxygen are typically the last parameters to stabilize. Note: once turbidity readings get below 20 NTUs, then the stabilization range can be amended to 20 percent (plus or minus 10 percent) over a minimum of three readings.

- Once the water level and field parameters have stabilized, collect the samples from the pump. Collect samples per Section 3.2.2.1.
- Decontaminate equipment in accordance with Section 3.12.

### **3.15 Monitoring Well Purging**

Well purging can be performed on a volume basis or on a field parameter stabilization basis. In both cases, field parameters are recorded; however, for the former case purging is concluded after a target number of well volumes (typically 3 to 5) regardless of whether parameters have stabilized. In the latter case, purging continues until field parameters stabilize within 10 percent.

#### **3.15.1 Volumetric Method of Well Purging**

The following steps should be followed when purging a well by the volumetric method:

- Don personal protective clothing and equipment as specified in the site-specific health and safety plan.
- Open the well cover and check the condition of the wellhead, including the condition of the surveyed reference mark, if any.
- Calibrate the required field parameter meters according to manufacturers specifications.
- Determine the depth to static water level and depth to bottom of well casing. Calculate the volume of water within the well bore.

Note: Record all data and calculations in the field logbook.

- Set up field parameter probes at the discharge orifice or dedicated probe port of the pump assembly or within the flow-through chamber.
- Prepare the pump and tubing, or bailer, and lower it into the casing.
- Remove the number of well volumes specified in the site-specific

plans. Generally, three to five well volumes will be required. Field parameters should be measured and recorded, if required by site-specific plans. In low recharge aquifers, the well commonly will be pumped or bailed to dryness before three well volumes of water are removed. If this is the case, there is no need to continue with purging operations. Record pertinent data in the field logbook.

- Remove the pump assembly or bailer from the well, decontaminate it (if required), and clean up the site. Lock the well cover before leaving. Containerize and/or dispose of development water as required by the site-specific plan.

#### **3.15.2 Indicator Parameter Method of Well Purging**

- Don personal protective clothing and equipment as specified in the site-specific health and safety plan.
- Open the well cover and check the condition of the wellhead, including the condition of the surveyed reference mark, if any.
- Calibrate the required field parameter meters according to manufacturers specifications.
- Determine the depth to static water level and depth to bottom.
- Set up field parameter probes at the discharge orifice or dedicated probe port of the pump assembly or within the flow-through chamber.
- Assemble the pump and tubing, or bailer, and lower into the casing.
- Begin pumping or bailing the well. Record indicator parameter readings for every purge volume. Maintain a record of the approximate volumes of water produced.
- Continue pumping or bailing until indicator parameter readings remain stable within  $\pm 10$  percent for three consecutive recording intervals, or in accordance with site-specific plans. Purging should continue until the discharge stream is clear and turbidity is less than 20 ntu or  $\pm 10$  percent. In a low recharge aquifer, the well may pump or bail to dryness before indicator parameters stabilize. In this

case, there is no need to continue purging. Record pertinent data on the well sampling form and or the field logbook.

- Remove the pump assembly or bailer from the well, decontaminate (if required), and clean up the site. Lock the well cover before leaving. Containerize and/or dispose of development water as required by the site-specific plans.

### **3.16 Well Abandonment**

Once it is deemed that the temporary or permanent monitoring well is no longer needed, the well will be abandoned by a New York State certified well driller in accordance with Rockland County Department of Health rules.

### **3.17 Subsurface Soil Sampling**

Subsurface soil samples may be collected using a hand auger at depths of up to 10 feet (typical). In such cases, A2L typically performs the boring and collects the samples for analysis. For deeper depths, a drilling subcontractor is typically used to perform a boring and collect subsurface soil samples by split spoon or Shelby tube via rotary drilling methods, or by direct push methods. In such cases, the driller provides the soil samples to A2L, and A2L then collects the laboratory samples.

The following steps should be taken when preparing for subsurface soil sampling:

- Don the appropriate personal protective clothing as dictated by the site-specific health and safety plan.
- Locate sampling location(s) in accordance with project documents (e.g., work plan) and document pertinent information in the appropriate field logbook. When possible, reference locations back to existing site features such as buildings, roads, intersections, etc.
- Processes for verifying depth of sampling must be specified in the site-specific plans.
- Clear away vegetation and debris from the ground surface at the boring location.
- Prepare an area next to the sample collection location for laying out cuttings by placing plastic sheeting on the ground to cover the immediate area surrounding the borehole.

The following general steps must be followed when collecting all subsurface soil samples:

- VOC samples or samples that may be degraded by aeration shall be collected first and with the least disturbance possible.
- Sampling information shall be recorded in the field logbook and on any associated forms.
- Describe lithology, including color, grains size, moisture, odor and other observations.

#### **3.17.1 Manual (Hand) Auguring**

The following steps must be followed when collecting hand-augured samples:

- Auger to the depth required for sampling. Place cuttings on plastic sheeting or as specified in the site-specific plans. If possible, lay out the cuttings in stratigraphic order.
- Throughout the Auguring, make detailed notes concerning the geologic features of the soil or sediments in the field logbook.
- Cease Auguring when the top of the specified sampling depth has been reached. If required, remove the auger from the hole and decontaminate the auger or use a separate decontaminated auger, then obtain the sample.
- Scan sample with organic vapor meter as appropriate.
- Collect samples in accordance with Section 3.2.2.2. Collect VOCs quickly to minimize loss of volatile's.
- When all sampling is complete, dispose of cuttings, plastic sheeting, etc., as specified in the site specific plans.
- Decontaminate all equipment in accordance with Section 3.12

#### **3.17.2 Split-Spoon/Split Barrel Sampling**

Note: the first 15 bullets describe activities to be performed by a licensed drilling contractor, not A2L personnel. The following steps must be followed when collecting split-spoon samples. Remove any pavement and subbase material from an area of twice the bit diameter, if necessary. The drilling rig will be

decontaminated at a separate location prior to drilling. Attach the hollow-stem auger with the cutting head, plug, and center rod(s) to the drill rig.

- Begin drilling and proceed to the first designated sample depth, adding auger(s) as necessary.
- Upon reaching the designated sample depth, slightly raise the auger(s) to disengage the cutting head, and rotate the auger without advancement to clean cuttings from the bottom of the hole.
- Remove the plug and center rods.
- If required by the site-specific sampling plan, install decontaminated liners in the splitspoon/split barrel sampler.
- Install a decontaminated split-spoon on the center rod(s) and insert it into the hollow-stem auger. Connect the hammer assembly and lightly tap the rods to seat the drive shoe at the top of undisturbed soil or sediment.
- Mark the center rod in 15-centimeter (6-inch) increments from the top of the auger(s).
- Drive the split-spoon using the hammer. Use a full 76-cm (30-inch) drop as specified by the American Society for Testing and Materials (ASTM) Method D1586. Record the number of blows required to drive the spoon or tube through each 15-cm (6-inch) increment.
- Cease driving when the full length of the spoon has been driven or upon refusal. Refusal occurs when little or no progress is made for 50 blows of the hammer. ASTM D1586-99 § 7.2.1 and 7.2.2 defines as >50 blows per 6-inch advance or a total of 100 blows.
- Pull the split-spoon free by using upswings of the hammer to loosen the sampler. Pull out the center rod and split-spoon.
- Unscrew the split-spoon assembly from the center rod and place it on the plastic sheeting.
- Remove the drive shoe and head assembly. If necessary, tap the split-spoon assembly with a hammer to loosen threaded couplings.
- With the drive shoe and head assembly off, open (split) the

split-spoon, being careful not to disturb the sample.

- Scan sample with organic vapor detector as appropriate.
- Collect samples in accordance with Section 3.2.2.2. Collect VOCs quickly to minimize loss of volatile's.
- When all sampling is complete, dispose of cuttings, plastic sheeting, etc., as specified in the site specific plans.
- Decontaminate all equipment in accordance with Section 3.12.

### **3.17.3 Direct Push Drilling**

Note: The first six bullets describe activities to be performed by a licensed drilling contractor, not A2L personnel. Decontaminate equipment. Install acetate sleeve in direct push sampler (no acetate sleeve required for split spoon). Drive samples from the surface to the desired depth, using either 4-foot or 5-foot long direct push samplers, or 2-foot split spoons.

- Use discrete interval sampling (sampler end is plugged while driving to top of desired sample interval to exclude soil from non-desired depths) when appropriate (for example, deeper than 8 feet or below the water table).
- At top of sampling interval, release plug (if used) and drive sampler across desired sample interval. Retrieve sample and provide to A2L. Cut open acetate sleeve with two parallel slices, scan with organic vapor meter as appropriate. Collect samples in accordance with Section 3.2.2.2. At the conclusion of the boring, grout the borehole and decontaminate equipment in accordance with Section 3.12.

### **3.17.4 Restrictions/Limitations**

- Basket or spring retainers may be needed for split-spoon sampling in loose, sandy soils.

### **3.18 Surface Soil Sampling**

The following steps must be followed when preparing for sample collection:

- Don the appropriate personal protective clothing as dictated by the site-specific health and safety plan.
- Locate sampling location(s) in accordance with project documents (e.g., work

plan) and document pertinent information in the appropriate field logbook. When possible, reference locations back to existing site features such as buildings, roads, intersections, etc.

- Processes for verifying depth of sampling must be specified in the site-specific plans.
- Carefully remove vegetation, stones etc. from the ground surface to expose soil.
- Place clean plastic sheeting on a flat, level surface near the sampling area, if possible, and place equipment to be used on the plastic; place the insulated cooler(s) on separate plastic sheeting.
- A clean, decontaminated trowel, scoop, or spoon will be used for each sample collected. Other equipment may be used (e.g., shovels) if constructed of stainless steel.
- Surface soil samples are normally collected from the least contaminated to the most contaminated areas, if known.
- Document the sampling events, recording the information in the designated field logbook. Document any and all deviations from SOPs in the field logbook and include rationale for changes.
- Collect samples in accordance with Section 3.2.2.2.
- Decontaminate sampling equipment in accordance with Section 3.12.

### **3.19 Water Level/NAPL Measurement**

Water levels can be measured by several instruments. The three most common are covered here electric water level meter (measures depth to water only), interface probe (measures depth to water and depth to non-aqueous phase liquid).

#### **3.19.1 Procedures for Use of Water Level Meter**

- Standing upwind of the well, open the well head and monitor with organic vapor meter as dictated by the site-specific health and safety plan.
- Check that water level meter is functioning correctly (test button, or immerse probe in tap water to test).
- Lower probe slowly into well until contact with water surface is indicated (tone and/or light).



- Slowly raise and re-lower probe until a precise, repeatable depth to water can be measured.
- Record the depth to water from the measuring point of known elevation, usually marked at the top of the casing. If no mark is present, measure from the highest point of the casing or as otherwise instructed in the site-specific work plan.
- Remove and decontaminate probe, secure well.

### **3.19.2 Procedures For Use of Interface Probe**

The interface meter is used to measure the depth to water and the depth to nonaqueous phase liquid (light and/or dense).

- Standing upwind of the well, open the well head and monitor with organic vapor meter as dictated by the site-specific health and safety plan.
- Check that the interface level meter is functioning correctly (test button, or immerse probe in tap water and NAPL to test).
- Lower probe slowly into well until contact with water or NAPL surface is indicated. Water is typically indicated by a steady tone; NAPL is typically indicated by a beeping tone check manufacturers specifications.
- Slowly raise and re-lower probe until a precise, repeatable depth to water/NAPL can be measured.
- Record the depth to water/NAPL from the measuring point of known elevation, usually marked at the top of the casing. If no mark is present, measure from the highest point of the casing or as otherwise instructed in the site-specific work plan.
- Measurement of interface depth between LNAPL and water; For LNAPL, the non-aqueous phase is floating on top of the water column, and the probe must be lowered through the NAPL before encountering water. In this case, shake the probe after water is encountered to help dislodge any NAPL droplets stuck to the probe. Then raise the probe slowly until it re-enters the NAPL. Perform this

procedure until a repeatable result is obtained. The interface depth should be recorded in the up direction, never the down direction. When the probe is moving down, past the LNAPL, it may still be coated with product and can therefore yield misleading results. Therefore, it must be shaken in the water and raised to the interface for an accurate result. Record depth from measuring point, per item 5 above.

- Remove and decontaminate probe, secure well.

### **3.20 Sample Handling, Packaging, and Shipping**

The shipping containers (coolers or shuttles) will be provided by the laboratory providing the analysis. These containers, once filled, will be secured with fiber tape, wrapped entirely around the container and will either be delivered directly to the Con Edison laboratory in Astoria Queens by the field crew or picked up by a laboratory provided courier. Consequently, the strict packaging, labeling and shipping of hazardous wastes and substances requirements set forth by the U.S. Department of Transportation (DOT) under CFR 49 will not be necessary. However, the following sample packaging procedures will be followed to guard against sample breakage and to maintain chain-of-custody.

- Check to ensure that the sample is properly filled; tighten cap securely.
- Enclose and seal sample containers in a clear plastic bag.
- Place freezer packages or ice in large ziplock plastic bags and place the bags in a sample cooler so that ice is not in direct contact with sample bottles. Sufficient ice will be added to cool the samples to 4°C.
- Pack noncombustible, absorbent vermiculite around bottles and ice to avoid sample breakage during transport.
- Complete Chain-of-Custody Records and other shipping/sample documentation including air bill numbers for each shipment of samples using a ballpoint pen. Seal documentation in a waterproof plastic bag and tape the bag inside the shipping container under the container lid. Include a return address for the cooler.
- Close the container and seal it with fiber tape and custody seals in such a manner that the custody seals would be broken if the cooler were opened.

#### **4.0 Instrument Procedures**

##### **4.1 Photoionization Detector**

###### **4.1.1 Introduction**

This Standard Operating Procedure (SOP) is specific to the Rae Systems MiniRae 2000 Organic Vapor Monitor (OVM) PID. This portable instrument is designed to measure the concentration of trace gases in ambient atmospheres at industrial and hazardous waste sites and are intrinsically safe. The analyzer employ PID.

The PID sensor consist of a sealed ultraviolet light source that emits photons which are energetic enough to ionize many trace species (particularly organics) but do not ionize the major compounds of air such as O<sub>2</sub>, N<sub>2</sub>, CO, CO<sub>2</sub>, or H<sub>2</sub>O. An ionization chamber adjacent to the ultraviolet lamp source contains a pair of electrodes. When a positive potential is applied to one electrode, the field created drives any ions, formed by absorption of UV light, to the collector electrode where the currents (proportional to concentration) are measured. One major difference between a flame ionization detector (FID) and a PID is that the latter responds to inorganic compounds as well as non methane type organic compounds.

To assess whether the instrument will respond to a particular species, the ionization potential (IP) should be checked. If the IP is less than the lamp energy, or, in some cases, up to 0.2-0.3 electron volts (ev) higher than the lamp energy, instrument response should occur. For example, hydrogen sulfide (IP = 10.5 ev) may be detected with a 10.2 ev lamp, but butane (IP 10.6 ev) will not be detected.

###### **4.1.2 Calibration**

Qualified personnel trained in calibration techniques for all field items perform calibration of all A2L field equipment. All field instruments will be tested prior to use to determine if it is reading within desired parameters. If it is determined that the equipment is out of calibration, it will be calibrated in the field. A maintenance file is kept for each calibrated field item.

PID and FID detector type instruments come with field calibration kits. A field calibration kit would be used if the instrument is to be kept out at the site for extended periods of time, or if the instrument endures prolonged environmental

extremes. In either case, a calibration check standard could be introduced in the instrument to verify its accuracy. If an instrument will not calibrate or shows improper field operation, it should be sent back to the office, and another instrument reissued.

Field personnel should not try to maintain the instruments in the field. If long sampling program is required, be prepared to take more equipment for backup in case of instrument failure. Records and procedures of all calibration techniques are contained within the owners manual maintained with the equipment.

With the instrument fully calibrated, it is now ready for use. Any results obtained should be reported as parts per millions (ppm) as isobutylene.

#### **4.2 pH, Conductivity, Temperature, Dissolved Oxygen Meter**

##### **4.2.1 Introduction**

A2L Technologies utilize a YSI 556MPS multi purpose meter to measure pH, conductivity, temperature and dissolved oxygen. The meter is equipt to read the oxygen reductive potential of groundwater samples, however, this will not be recorded for this project. The YSI 556 utilizes a flow through cell continuously submersing the respective probes to obtain the requisite readings.

pH is the negative logarithm of the effective hydrogen ion concentration (or activity) in gram equivalents per liter used. This expresses both acidity, and alkalinity on a scale whose values run from 0 to 14. Number 7 represents neutrality, and numbers greater than 7 indicate increasing alkalinity while numbers less than 7 indicate increasing acidity.

Conductivity is a numerical expression of the ability of an aqueous solution to carry an electrical current. This ability depends on the presence of ions in the solution, and their total concentration. Factors such as mobility valence, relative concentration, and temperature also combine to create this occurrence. Solutions of most inorganic acids, bases and salts are relatively good conductors. Organic compounds in aqueous solutions are not good conductors. For example, freshly distilled water has conductivity reading of 0.5 to 2 mhos/cm and increases with time. This increase is caused by absorption of atmospheric carbon dioxide, and to a lesser extent ammonia. While industrial type wastes have conductivity readings of +10,000

mhos/cm.

Dissolved oxygen (DO) is the numerical expression of the available oxygen content of an aqueous solution at standard temperatures and pressures. DO concentrations are temperature dependant with lower temperature water solutions containing higher concentrations of oxygen.

Temperature is a measure of the average kinetic energy of the particles in a sample of matter, expressed in terms of units or degrees designated on a standard scale. The groundwater temperature will be recorded in degrees Centigrade.

#### 4.2.2 Calibration

The YSI 556 readings will be checked in the field prior to recording any groundwater readings against known standards for all effected parameters excluding temperature. If the presented values are beyond a five percent range for the effected readout, the unit will be calibrated in the field using known standards. A record of the check and or calibration will be maintained in the field log book or within a dedicated binder.

### 5.0 Laboratory Procedures

The term "data quality" refers to the level of uncertainty associated with a particular data set. The data quality associated with environmental measurement data is a function of the sampling plan rationale and procedures used to collect the samples as well as the analytical methods and instrumentation used in making the measurements. Each component has its own potential sources of error and biases that can affect the overall measurement process.

Sources of error that can be traced to the sampling component of environmental data collection are: poor sampling plan design, inconsistent use of standard operating procedures, sample handling and transportation. The most common sources of error that can be traced to the analytical component of the total measurement system are calibration and contamination problems. It is recognized that by far the largest component of the total uncertainty associated with environmental data collection originates from the sampling process. All sampling programs initiated in support of this project will stress forward planning and be well conceived and reviewed prior to the collection of any samples as a way to minimize this major source of potential error.

Uncertainty cannot be eliminated from environmental measurement data. The amount of

uncertainty that can be tolerated depends on the objective of the sampling program and the intended use of the data collected. The purpose of the project's quality assurance program is to assure that the data quality of all data collected be of known and ascertainable value.

## **5.1 Data Quality Criteria**

Data quality can be assessed in terms of its precision, accuracy, representativeness, completeness, and comparability. Analytical method detection limits will also be discussed in this section.

### **5.1.1 Precision**

Precision is a measure of the reproducibility of analyses under a given set of conditions. The overall precision of a sampling event is a mixture of sampling and analytical factors. The precision of data collected in support of this project will be assessed on two different levels:

- By calculating the relative percent difference (RPD) of laboratory matrix spike duplicates and/or laboratory replicate samples (a measure of analytical precision).
- By calculating the RPD of field duplicates samples submitted to laboratory "blind" (a measure of the precision of the entire measurement system, including sampling).

Relative percent difference will be calculated according to the following equation:

$$\text{RPD} = \frac{|A - B|}{(A + B)/2} \times 100\%$$

where: A = Sample Result  
B = Replicate Sample Result

### **5.1.2 Accuracy**

Accuracy is a measurement of the amount of bias that exists in a measurement system. This can be thought of as the degree that the reported value agrees with the supposed "true value". The accuracy of data collected in support of this project will be assessed in the following ways:

- By calculating the percent recovery (%R) of laboratory matrix spikes and/or laboratory control standards
- By documenting the level of contamination that exists (if any) in laboratory method blanks

- By documenting the level of contamination that exists (if any) in field and/or trip blanks submitted to the laboratory "blind" for analysis
- Percent recovery will be calculated according to the following equation:

$$\%R = \frac{SSR - SR}{SA} \times 100$$

where: SSR = Spiked Sample Result  
SR = Sample Result  
SA = Spike Concentration

#### 5.1.3 Representativeness

Unlike the previous two criteria which can be expressed in quantitative terms, representativeness is a qualitative parameter. However, in terms of overall data quality, representativeness may be the most important parameter of all.

The representativeness criterion is concerned with the degree to which a sample reflects (represents) a characteristic of a population, parameter variations at a specific location or an environmental condition. Sample representativeness will be addressed in support of this project through a detailed sampling plan design and rationale and through the proper use of the appropriate sampling standard operating procedures, depending on sample matrix and the parameters to be analyzed.

Composite samples will be collected in situations conducive to compositing techniques (particularly samples collected along the vertical extent of a borehole). The use of composite samples tends to maximize the representativeness of a sampling round because more information is provided about a much broader area than a single grab sample. This is especially true in situations where the objective of sampling is to determine where gross contamination exists on site and the location of any "hot spots". In these cases, broad coverage of the area to be sampled is more important than obtaining the lowest possible detection limits.

#### 5.1.4 Completeness

Completeness is a measure of the amount of usable data obtained from a measurement system compared to the amount that was expected to be obtained under correct normal conditions. Usability will be determined by evaluation of the precision, accuracy, representativeness, and comparability parameters. Those data that are validated as correct, or are qualified as estimated or non-detect are considered usable. Rejected data are not considered usable. A completeness goal of 90% is

projected. If this goal is not met, the effect of not meeting this goal will be discussed by the A2L project manager and the NYSDEC site manager. Completeness is calculated using the following equation:

$$\text{Percent Completeness} = \text{DO/DP} \times 100$$

Where:

DO = Data obtained and usable

DP = Data planned to be obtained

There also may be incomplete data while still meeting the 90 percent goal if a critical sample location cannot be sampled.

#### 5.1.5 Comparability

The comparability criterion is a quality characteristic which is an expression of the confidence with which one data set can be compared with another. Comparability issues are of importance at two different levels of a sampling program. The primary comparability issues are concerned with whether the field sampling techniques, analytical procedures, and concentration units of one data set can be compared with another.

The comparability criterion also applies to the environmental conditions/considerations present at the time of the sampling. Temporal and/or seasonal variations may make data collected from the same location at different times of the year incomparable, or comparable in a relative sense only, for example.

Comparability is judged by comparing results to other similar data sets. Consistency in the acquisition, handling, and analysis of samples is necessary for comparing results. Data developed under this investigation will be collected and analyzed using Soil Vapor Intrusion Guidance for soil vapor collection and NYSDEC Department of Remediation Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002 to ensure comparability of results with other analyses performed in a similar manner.

#### 5.1.6 Method Detection Limits

Whenever environmental measurement data is to be used in comparison with predetermined "action levels" or other regulatory requirements, the reported method detection limits of the analytical data is of prime importance. Analytical methods specified in support of this project should have a reported detection limit at least 50% below the required action level to assure that measurements made in the vicinity of



the action level are of high quality. In circumstances concerning extremely low action levels or regulatory requirements where analytical techniques will have to be pushed to their limits, every effort will be made to select the most appropriate analytical procedures. It is recognized that analytical detection limits are sample specific and are affected by sample volumes as well as the need for sample concentration or dilution. These circumstances will be accounted for in the review and interpretation of the analytical results.

## **5.2 Quality Control**

Two separate levels of quality control exist for all samples collected in support of this project, internal laboratory quality control and program generated quality control.

### **5.2.1 Internal Laboratory Quality Control**

Internal laboratory quality control is a function of the individual laboratory's QA/QC Plan. A laboratory's QA/QC plan contains specific criteria governing the manner in which analyses are conducted and provide information on the laboratory's performance and control of the sources of error that exist within the lab. Included in the plan are requirements for the type and frequency of quality control check samples that are to be analyzed on a routine basis.

All laboratory analysis conducted in support of this project must include the following quality control check samples:

- Surrogate spikes (where appropriate)
- Matrix spike/matrix spike duplicate or laboratory duplicates and laboratory control samples (where appropriate)
- Method blanks

The laboratory may adhere to the analysis frequency specified in their QA/QC plan for these check samples provided that the specified frequency is equal to or greater than the frequency specified in Table 5-1 or as modified/specified by the QAPP.

### **5.2.2 Program Generated Quality Control**

Program generated quality control consists of quality control check samples that are submitted to the laboratory for analysis "blind" along with actual environmental samples. These samples provide quality control information for the

entire sampling event, from the actual sampling and handling through laboratory analysis. As such, they can provide the best overall estimate of the total uncertainty associated with the sampling round.

TABLE 5-1	
Laboratory Sample Frequency	
<u>QC Check Sample</u>	<u>Frequency of Analysis</u>
Method Blanks	One per analytical batch or one per every twenty samples.
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per analytical batch or one per every twenty samples.
Surrogate Spikes	One per every trace organic analysis

The combination of laboratory duplicates and laboratory control samples may be substituted for MS/MSD analysis for parameters where they are more appropriate.

Program generated quality control samples collected in support of this project are:

- Duplicate samples
- Field blanks
- Trip blanks

Each report should have a cover page that references the A2L task number. The cover page also provides an opportunity to describe in a narrative format any unusual problems or interferences encountered during analysis. In addition, all results should be reported on a dry weight basis for soils and at dilution-corrected concentrations for all samples.

### 5.2.3 QC Deliverables Package

The following quality control data is required to be reported. For "priority pollutant" type analysis, the following quality control data is required per sample batch:

- Method Blanks associated with each analytical procedure.
- Surrogate Spike Recoveries for volatile organics, PCBs, semi-volatile's and polynuclear aromatic hydrocarbons. MS/MSDs for all priority pollutant parameters. One MS/MSD should be run for

every 20 samples.

For non-priority pollutant parameters, the following quality control data is required per sample batch:

- Method Blanks
- Laboratory Duplicates -- One duplicate analysis should be performed at a frequency of one per twenty samples.

No specific acceptance criteria for blanks and spike recoveries will be set forth here, however, all laboratories are expected to conform to standard EPA quality control specifications. A2L expects laboratories to reanalyze samples if quality control samples fail to meet EPA specifications.

The quality control data may be presented as a quality control section within the report or it may be integrated among the results.

### **5.3 Data Quality Requirements**

Taking into consideration a project's overall objective and intended use of the data, it should be considered that analyses be conducted in accordance with SW-846, Test Methods for Evaluating Solid Waste, Third Edition procedures. In cases where additional procedures are required, other EPA approved laboratory methods will be used.

### **5.4 Data Deliverable**

Analytical data deliverable will be provided in accordance with NYSDEC requirements (EPA Region 2 EDD, dated December 2003).

### **5.5 Analytical Data Validation**

If a Work Assignment requires the validation of data; i.e., data validation is performed to determine whether or not the data, as presented, meets the site/project specific criteria for data quality and data use.

Laboratories results shall be supported by sufficient back-up data and QA/QC results to enable the reviewer to conclusively determine the quality of the data. The laboratory will review data prior to its release from the laboratory. Objectives for review are in accordance with the QA/QC objectives stated in each site-specific Work Plan. The laboratory is required to evaluate their ability to meet these objectives.

Outlying data will be flagged in accordance with laboratory standard operating procedures, and corrective action will be taken to rectify the problem.

A NYSDEC-approved qualified independent third party data validator will review the data package to determine completeness and compliance in accordance with Standby Contract D004437. A narrative describing how the data did or did not meet the validation criteria is part of the data validation procedure. The validation assessment will describe the overall quality of the data and the data validation report will provide a written statement upon completion of the validation indicating whether or not the data are valid and usable, and include a percent completeness value of usable data.

#### **5.6 Data Usability Summary Report**

A Data Usability Summary Report (DUSR) provides a thorough evaluation of analytical data without the third party data validation. The primary objective of a DUSR is to determine whether or not the data, as presented, meets the site/project specific criteria for data quality and data use. If a Work Assignment requires a DUSR, the DUSR will be developed by a NYSDEC approved qualified environmental scientist.

Clabattani Brownfields Site  
ID# C344068  
Stony Point, Rockland County, NY

QAPP  
A2L Technologies, Inc.  
Project # 050409.80

**ATTACHMENT 1**

**NYSDOH Indoor Air Quality Questionnaire  
and Building Inventory Form**

**NEW YORK STATE DEPARTMENT OF HEALTH  
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY  
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name \_\_\_\_\_ Date/Time Prepared \_\_\_\_\_

Preparer's Affiliation \_\_\_\_\_ Phone No. \_\_\_\_\_

Purpose of Investigation \_\_\_\_\_

**1. OCCUPANT:**

Interviewed: Y / N

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location \_\_\_\_\_ Age of Occupants \_\_\_\_\_

**2. OWNER OR LANDLORD: (Check if same as occupant \_\_\_\_)**

Interviewed: Y / N

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

**3. BUILDING CHARACTERISTICS**

**Type of Building: (Circle appropriate response)**

Residential  
Industrial

School  
Church

Commercial/Multi-use  
Other: \_\_\_\_\_

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? \_\_\_\_\_

If the property is commercial, type?

Business Type(s) \_\_\_\_\_

Does it include residences (i.e., multi-use)? Y / N      If yes, how many? \_\_\_\_\_

Other characteristics:

Number of floors \_\_\_\_\_ Building age \_\_\_\_\_

Is the building insulated? Y / N      How air tight? Tight / Average / Not Tight

#### 4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

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Airflow near source

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Outdoor air infiltration

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Infiltration into air ducts

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**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)**

- a. Above grade construction:    wood frame    concrete    stone    brick
- b. Basement type:    full    crawlspace    slab    other \_\_\_\_\_
- c. Basement floor:    concrete    dirt    stone    other \_\_\_\_\_
- d. Basement floor:    uncovered    covered    covered with \_\_\_\_\_
- e. Concrete floor:    unsealed    sealed    sealed with \_\_\_\_\_
- f. Foundation walls:    poured    block    stone    other \_\_\_\_\_
- g. Foundation walls:    unsealed    sealed    sealed with \_\_\_\_\_
- h. The basement is:    wet    damp    dry    moldy
- i. The basement is:    finished    unfinished    partially finished
- j. Sump present?    Y / N
- k. Water in sump?    Y / N / not applicable

Basement/Lowest level depth below grade: \_\_\_\_\_ (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

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**6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)**

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: \_\_\_\_\_

Boiler/furnace located in:    Basement    Outdoors    Main Floor    Other \_\_\_\_\_

Air conditioning:    Central Air    Window units    Open Windows    None



Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

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## 7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	_____
1 <sup>st</sup> Floor	_____
2 <sup>nd</sup> Floor	_____
3 <sup>rd</sup> Floor	_____
4 <sup>th</sup> Floor	_____

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- |  |                                    |
|--|------------------------------------|
| a. Is there an attached garage?  | Y / N                              |
| b. Does the garage have a separate heating unit?   | Y / N / NA                         |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) | Y / N / NA<br>Please specify _____ |
| d. Has the building ever had a fire?   | Y / N When? _____                  |
| e. Is a kerosene or unvented gas space heater present?   | Y / N Where? _____                 |
| f. Is there a workshop or hobby/craft area?  | Y / N Where & Type? _____          |
| g. Is there smoking in the building?   | Y / N How frequently? _____        |
| h. Have cleaning products been used recently?  | Y / N When & Type? _____           |
| i. Have cosmetic products been used recently?  | Y / N When & Type? _____           |

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? \_\_\_\_\_
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? \_\_\_\_\_
- l. Have air fresheners been used recently? Y / N When & Type? \_\_\_\_\_
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? \_\_\_\_\_
- n. Is there a bathroom exhaust fan? Y / N If yes, where vented? \_\_\_\_\_
- o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / N When & Type? \_\_\_\_\_

Are there odors in the building? Y / N  
If yes, please describe: \_\_\_\_\_

Do any of the building occupants use solvents at work? Y / N  
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)	No
Yes, use dry-cleaning infrequently (monthly or less)	Unknown
Yes, work at a dry-cleaning service	

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: \_\_\_\_\_  
Is the system active or passive? Active/Passive

## 9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: \_\_\_\_\_

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: \_\_\_\_\_

## 10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: \_\_\_\_\_

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

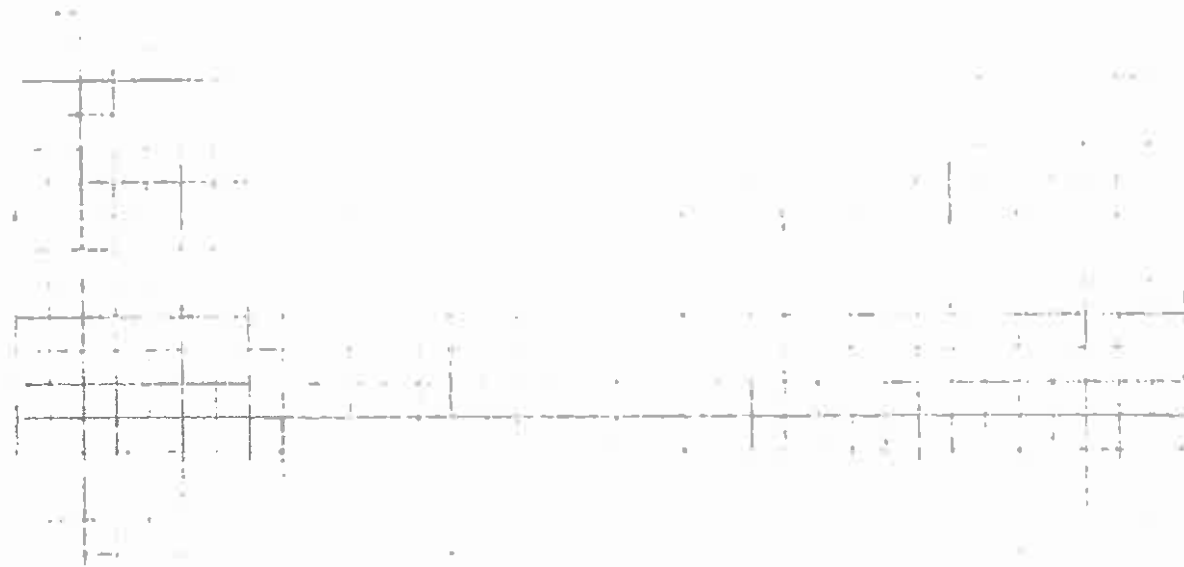
**11. FLOOR PLANS**

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

**Basement:**



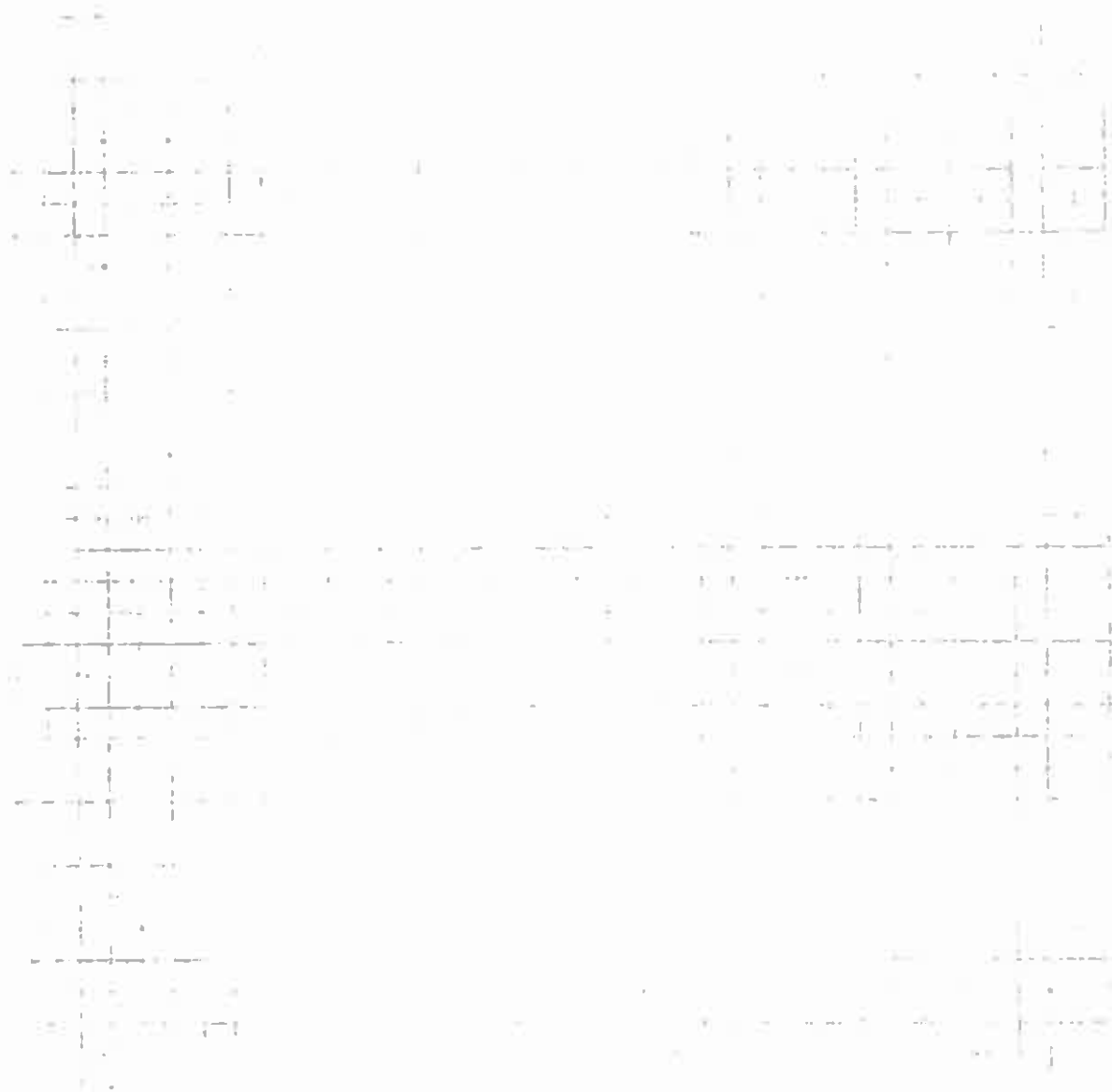
**First Floor:**



## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** \_\_\_\_\_

**List specific products found in the residence that have the potential to affect indoor air quality.**

<b>Location</b>	<b>Product Description</b>	<b>Size (units)</b>	<b>Condition<sup>*</sup></b>	<b>Chemical Ingredients</b>	<b>Field Instrument Reading (units)</b>	<b>Photo<sup>**</sup> Y/N</b>

<sup>\*</sup> Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

<sup>\*\*</sup> Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**APPENDIX 8**  
**Laboratory Analytical Results**



## ANALYTICAL RESULTS

Prepared for:

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

813-248-8558

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1092162. Samples arrived at the laboratory on Tuesday, May 20, 2008. The PO# for this group is 050409.05.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-1 Grab Water Sample	5366351
MW-2 Grab Water Sample	5366352
MW-3 Grab Water Sample	5366353
MW-4 Grab Water Sample	5366354
MW-5 Grab Water Sample	5366355
MW-6 Grab Water Sample	5366356
Trip Blank Water Sample	5366357

1 COPY TO

A2L Technologies

Attn: Joe Clemis

Questions? Contact Environmental Client Services

Respectfully Submitted,

A handwritten signature in cursive script, reading "Marla S. Lord".

Marla S. Lord  
Senior Specialist



Lancaster Laboratories Sample No. WW5366351

Group No. 1092162

MW-1 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 08:51 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIA01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Limit of Quantitation	Units	
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0827	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

04513 NY STARS waters by SW846 8260B

02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	< 5.	5.	ug/l	1
05417	o-Xylene	95-47-6	< 5.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	< 5.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	< 5.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	< 5.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	< 5.	5.	ug/l	1
05430	sec-Butylbenzene	135-98-8	< 5.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	< 5.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	< 5.	5.	ug/l	1
05439	Naphthalene	91-20-3	< 5.	5.	ug/l	1

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	05/28/2008 10:06		Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	06/01/2008 04:28		Tara L Snyder	1





Lancaster Laboratories Sample No. WW5366351

Group No. 1092162

MW-1 Grab Water Sample  
 Ciabattoni 050409

Collected: 05/20/2008 08:51 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
 Reported: 06/09/2008 at 15:27  
 Discard: 06/24/2008

A2L Technologies  
 10220 Harney Road  
 Thonotosassa FL 33592

CIA01						
07036	Selenium	SW-846 6010B	1	06/01/2008 04:28	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	06/01/2008 04:28	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	06/01/2008 04:28	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	06/01/2008 04:28	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	06/02/2008 17:41	Thomas F McLamb Sr	1
07066	Silver	SW-846 6010B	1	06/01/2008 04:28	Tara L Snyder	1
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 13:30	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/30/2008 13:30	Chelsea B Eastep	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/22/2008 08:34	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/27/2008 16:15	Damary Valentin	1



Lancaster Laboratories Sample No. WW5366352

Group No. 1092162

MW-2 Grab Water Sample  
Ciababtoni 050409

Collected: 05/20/2008 10:16 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIA02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Limit of Quantitation	Units	
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0469	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

04513 NY STARS waters by SWB46 B260B

02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	< 5.	5.	ug/l	1
05417	o-Xylene	95-47-6	< 5.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	< 5.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	< 5.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	< 5.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	< 5.	5.	ug/l	1
05430	sec-Butylbenzene	135-98-8	< 5.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	< 5.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	< 5.	5.	ug/l	1
05439	Naphthalene	91-20-3	< 5.	5.	ug/l	1

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	05/28/2008 10:07		Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	06/01/2008 04:32		Tara L Snyder	1



Lancaster Laboratories Sample No. WW5366352

Group No. 1092162

MW-2 Grab Water Sample  
 Ciabattoni 050409

Collected: 05/20/2008 10:16 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
 Reported: 06/09/2008 at 15:27  
 Discard: 06/24/2008

A2L Technologies  
 10220 Harney Road  
 Thonotosassa FL 33592

## CIA02

07036	Selenium	SW-846 6010B	1	06/01/2008 04:32	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	06/01/2008 04:32	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	06/01/2008 04:32	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	06/01/2008 04:32	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	06/02/2008 17:55	Thomas F McLamb Sr	1
07066	Silver	SW-846 6010B	1	06/01/2008 04:32	Tara L Snyder	1
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 13:53	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/30/2008 13:53	Chelsea B Eastep	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/22/2008 08:34	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/27/2008 16:15	Damary Valentin	1



Lancaster Laboratories Sample No. WW5366353

Group No. 1092162

MW-3 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 14:02 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIA03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Limit of Quantitation	Units	
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.113	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1
04513 NY STARS waters by SW846 82608						
02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	< 5.	5.	ug/l	1
05417	o-Xylene	95-47-6	< 5.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	9.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	9.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	< 5.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	< 5.	5.	ug/l	1
05430	sec-Butylbenzene	135-98-8	7.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	< 5.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	< 5.	5.	ug/l	1
05439	Naphthalene	91-20-3	< 5.	5.	ug/l	1

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	05/28/2008 10:08		Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	06/01/2008 04:43		Tara L Snyder	1



Lancaster Laboratories Sample No. WW5366353

Group No. 1092162

MW-3 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 14:02 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

## CIA03

07036	Selenium	SW-846 6010B	1	06/01/2008 04:43	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	06/01/2008 04:43	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	06/01/2008 04:43	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	06/01/2008 04:43	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	06/02/2008 17:59	Thomas F McLamb Sr	1
07066	Silver	SW-846 6010B	1	06/01/2008 04:43	Tara L Snyder	1
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 14:16	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/30/2008 14:16	Chelsea B Eastep	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/22/2008 08:34	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/27/2008 16:15	Damary Valentin	1



Lancaster Laboratories Sample No. WW5366354

Group No. 1092162

MW-4 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 12:49 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIA04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0849	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

04513 NY STARS waters by SW846 8260B

02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	8.	5.	ug/l	1
05407	Toluene	108-88-3	13.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	190.	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	120.	5.	ug/l	1
05417	o-Xylene	95-47-6	< 5.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	44.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	110.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	46.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	31.	5.	ug/l	1
05430	sec-Butylbenzene	135-98-8	18.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	5.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	16.	5.	ug/l	1
05439	Naphthalene	91-20-3	31.	5.	ug/l	1

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	05/28/2008 10:09	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	06/01/2008 04:47	Tara L Snyder	1



Lancaster Laboratories Sample No. WW5366354

Group No. 1092162

MW-4 Grab Water Sample  
 Ciabattoni 050409

Collected: 05/20/2008 12:49 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
 Reported: 06/09/2008 at 15:27  
 Discard: 06/24/2008

A2L Technologies  
 10220 Harney Road  
 Thonotosassa FL 33592

## CIA04

07036	Selenium	SW-846 6010B	1	06/01/2008 04:47	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	06/01/2008 04:47	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	06/01/2008 04:47	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	06/01/2008 04:47	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	06/02/2008 18:04	Thomas F McLamb Sr	1
07066	Silver	SW-846 6010B	1	06/01/2008 04:47	Tara L Snyder	1
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 15:02	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/30/2008 15:02	Chelsea B Eastep	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/22/2008 08:34	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/27/2008 16:15	Damary Valentin	1



Lancaster Laboratories Sample No. WW5366355

Group No. 1092162

MW-5 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 11:33 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIA05

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.152	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1
04513	NY STARS waters by SW846 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	< 5.	5.	ug/l	1
05417	o-Xylene	95-47-6	< 5.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	< 5.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	< 5.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	< 5.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	< 5.	5.	ug/l	1
05430	sec-Butylbenzene	135-98-8	< 5.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	< 5.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	< 5.	5.	ug/l	1
05439	Naphthalene	91-20-3	< 5.	5.	ug/l	1

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1	05/28/2008 10:11	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	06/01/2008 04:50	Tara L Snyder	1





Lancaster Laboratories Sample No. WW5366355

Group No. 1092162

MW-5 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 11:33 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

## CIA05

07036	Selenium	SW-846 6010B	1	06/01/2008 04:50	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	06/01/2008 04:50	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	06/01/2008 04:50	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	06/01/2008 04:50	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	06/02/2008 18:08	Thomas F McLamb Sr	1
07066	Silver	SW-846 6010B	1	06/01/2008 04:50	Tara L Snyder	1
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 15:48	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/30/2008 15:48	Chelsea B Eastep	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/22/2008 08:34	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/27/2008 16:15	Damary Valentin	1



Lancaster Laboratories Sample No. WW5366356

Group No. 1092162

MW-6 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 15:02 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIA06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.119	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

04513 NY STARS waters by SWB46 8260B

02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	290.	20.	ug/l	4
05407	Toluene	108-88-3	170.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	610.	20.	ug/l	4
05416	m+p-Xylene	1330-20-7	600.	5.	ug/l	1
05417	o-Xylene	95-47-6	38.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	110.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	200.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	290.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	320.	20.	ug/l	4
05430	sec-Butylbenzene	135-98-8	16.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	9.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	30.	5.	ug/l	1
05439	Naphthalene	91-20-3	170.	5.	ug/l	1

This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	05/28/2008 10:12	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	06/01/2008 04:54	Tara L Snyder	1



Lancaster Laboratories Sample No. WW5366356

Group No. 1092162

MW-6 Grab Water Sample  
Ciabattoni 050409

Collected: 05/20/2008 15:02 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

## CIA06

07036	Selenium	SW-846 6010B	1	06/01/2008 04:54	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	06/01/2008 04:54	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	06/01/2008 04:54	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	06/01/2008 04:54	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	06/02/2008 18:13	Thomas F McLamb Sr	1
07066	Silver	SW-846 6010B	1	06/01/2008 04:54	Tara L Snyder	1
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 16:11	Chelsea B Eastep	4
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/31/2008 10:39	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/31/2008 10:39	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	05/30/2008 16:11	Chelsea B Eastep	4
01848	NW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/22/2008 08:34	Denise K Connors	1
05713	NW SW846 Hg Digest	SW-846 7470A	1	05/27/2008 16:15	Damary Valentin	1



Lancaster Laboratories Sample No. WW5366357

Group No. 1092162

Trip Blank Water Sample  
Ciabattoni 050409

Collected: 05/20/2008

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/09/2008 at 15:27  
Discard: 06/24/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CIATB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
04513	NY STARS waters by SW846 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/l	1
05401	Benzene	71-43-2	< 5.	5.	ug/l	1
05407	Toluene	108-88-3	< 5.	5.	ug/l	1
05415	Ethylbenzene	100-41-4	< 5.	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	< 5.	5.	ug/l	1
05417	o-Xylene	95-47-6	< 5.	5.	ug/l	1
05420	Isopropylbenzene	98-82-8	< 5.	5.	ug/l	1
05424	n-Propylbenzene	103-65-1	< 5.	5.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	< 5.	5.	ug/l	1
05428	tert-Butylbenzene	98-06-6	< 5.	5.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	< 5.	5.	ug/l	1
05430	sec-Butylbenzene	135-98-8	< 5.	5.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	< 5.	5.	ug/l	1
05434	n-Butylbenzene	104-51-8	< 5.	5.	ug/l	1
05439	Naphthalene	91-20-3	< 5.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
04513	NY STARS waters by SW846 8260B	SW-846 8260B	1	05/30/2008 16:57	Chelsea B Eastep	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	05/30/2008 16:57	Chelsea B Eastep	1



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/09/08 at 03:27 PM

Group Number: 1092162

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 081421848004	Sample number(s): 5366351-5366356							
Arsenic	< 0.0200	0.0200	mg/l	103		90-119		
Selenium	< 0.0200	0.0200	mg/l	105		80-120		
Barium	< 0.0050	0.0050	mg/l	103		90-110		
Cadmium	< 0.0050	0.0050	mg/l	103		90-112		
Chromium	< 0.0150	0.0150	mg/l	104		90-110		
Lead	< 0.0150	0.0150	mg/l	104		90-113		
Silver	< 0.0050	0.0050	mg/l	107		90-118		
Batch number: 081445713005	Sample number(s): 5366351-5366356							
Mercury	< 0.00020	0.00020	mg/l	89		80-120		
Batch number: N081511AA	Sample number(s): 5366351-5366357							
Methyl Tertiary Butyl Ether	< 5.	5.	ug/l	90	92	73-119	3	30
Benzene	< 5.	5.	ug/l	93	96	78-119	2	30
Toluene	< 5.	5.	ug/l	93	95	85-115	2	30
Ethylbenzene	< 5.	5.	ug/l	92	94	82-119	2	30
m+p-Xylene	< 5.	5.	ug/l	93	96	83-113	3	30
o-Xylene	< 5.	5.	ug/l	92	94	83-113	1	30
Isopropylbenzene	< 5.	5.	ug/l	92	94	80-113	2	30
n-Propylbenzene	< 5.	5.	ug/l	90	92	78-119	1	30
1,3,5-Trimethylbenzene	< 5.	5.	ug/l	92	92	78-116	0	30
tert-Butylbenzene	< 5.	5.	ug/l	91	92	74-114	1	30
1,2,4-Trimethylbenzene	< 5.	5.	ug/l	92	94	78-117	2	30
sec-Butylbenzene	< 5.	5.	ug/l	90	92	72-120	2	30
p-Isopropyltoluene	< 5.	5.	ug/l	91	93	72-118	1	30
n-Butylbenzene	< 5.	5.	ug/l	90	90	75-120	0	30
Naphthalene	< 5.	5.	ug/l	85	89	61-116	4	30
Batch number: N081513AA	Sample number(s): 5366356							
Methyl Tertiary Butyl Ether	< 5.	5.	ug/l	92		73-119		
Toluene	< 5.	5.	ug/l	95		85-115		
m+p-Xylene	< 5.	5.	ug/l	95		83-113		
o-Xylene	< 5.	5.	ug/l	95		83-113		
Isopropylbenzene	< 5.	5.	ug/l	95		80-113		
n-Propylbenzene	< 5.	5.	ug/l	92		78-119		
1,3,5-Trimethylbenzene	< 5.	5.	ug/l	92		78-116		
tert-Butylbenzene	< 5.	5.	ug/l	92		74-114		
sec-Butylbenzene	< 5.	5.	ug/l	92		72-120		
p-Isopropyltoluene	< 5.	5.	ug/l	92		72-118		
n-Butylbenzene	< 5.	5.	ug/l	89		75-120		
Naphthalene	< 5.	5.	ug/l	84		61-116		

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/09/08 at 03:27 PM

Group Number: 1092162

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 081421848004	Sample number(s): 5366351-5366356 UNSPK: P365985 BKG: P365985								
Arsenic	102	107	75-125	5	20	< 0.0200	< 0.0200	0 (1)	20
Selenium	96	105	75-125	9	20	< 0.0200	< 0.0200	0 (1)	20
Barium	100	105	78-118	5	20	0.0140	0.0140	0 (1)	20
Cadmium	98	103	83-116	5	20	< 0.0050	< 0.0050	0 (1)	20
Chromium	100	105	81-120	5	20	< 0.0150	< 0.0150	0 (1)	20
Lead	103	101	75-125	2	20	< 0.0150	< 0.0150	0 (1)	20
Silver	103	107	75-125	5	20	< 0.0050	< 0.0050	0 (1)	20
Batch number: 081445713005	Sample number(s): 5366351-5366356 UNSPK: P367561 BKG: P367561								
Mercury	92	92	80-120	1	20	< 0.00020	< 0.00020	8 (1)	20
Batch number: N081511AA	Sample number(s): 5366351-5366357 UNSPK: P365814								
Methyl Tertiary Butyl Ether	91		69-127						
Benzene	100		83-128						
Toluene	100		83-127						
Ethylbenzene	99		82-129						
m+p-Xylene	99		82-130						
o-Xylene	98		82-130						
Isopropylbenzene	101		81-130						
n-Propylbenzene	99		74-138						
1,3,5-Trimethylbenzene	97		75-132						
tert-Butylbenzene	99		76-128						
1,2,4-Trimethylbenzene	96		80-125						
sec-Butylbenzene	99		73-137						
p-Isopropyltoluene	99		74-135						
n-Butylbenzene	96		70-141						
Naphthalene	84		57-125						
Batch number: N081513AA	Sample number(s): 5366356 UNSPK: P367741								
Methyl Tertiary Butyl Ether	94	94	69-127	0	30				
Toluene	104	104	83-127	1	30				
m+p-Xylene	104	103	82-130	1	30				
o-Xylene	100	101	82-130	1	30				
Isopropylbenzene	102	103	81-130	1	30				
n-Propylbenzene	102	102	74-138	0	30				
1,3,5-Trimethylbenzene	100	100	75-132	0	30				
tert-Butylbenzene	102	101	76-128	2	30				
sec-Butylbenzene	103	102	73-137	0	30				
p-Isopropyltoluene	102	101	74-135	1	30				
n-Butylbenzene	100	100	70-141	0	30				
Naphthalene	86	86	57-125	0	30				

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NY STARS waters by SW846 8260B

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/09/08 at 03:27 PM

Group Number: 1092162

## Surrogate Quality Control

Batch number: N081511AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5366351	91	92	91	88
5366352	91	92	92	88
5366353	91	91	93	88
5366354	91	91	92	90
5366355	91	92	91	88
5366357	91	92	91	87
Blank	92	93	91	89
LCS	92	92	93	90
LCSD	93	93	93	89
MS	91	95	93	89
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NY STARS waters by SW846 8260B

Batch number: N081513AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5366356	91	93	92	93
Blank	91	92	93	88
LCS	92	90	94	89
MS	92	91	94	90
MSD	91	95	93	90
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## ANALYTICAL RESULTS

Prepared for:

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

813-248-8558

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1091896. Samples arrived at the laboratory on Saturday, May 17, 2008. The PO# for this group is 050409.05.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
SB1-6 Grab Soil Sample	5364998
SB1-6 Grab Soil Sample	5364999
SB2-18 Grab Soil Sample	5365000
SB2-18 Grab Soil Sample	5365001
SB3-24 Grab Soil Sample	5365002
SB3-24 Grab Soil Sample	5365003
SB4-18 Grab Soil Sample	5365004
SB4-18 Grab Soil Sample	5365005
SB5-8 Grab Soil Sample	5365006
SB5-8 Grab Soil Sample	5365007
SB6-18 Grab Soil Sample	5365008
SB6-18 Grab Soil Sample	5365009
SB7 Grab Soil Sample	5365010
SB8-1 Grab Soil Sample	5365011
SB9-1 Grab Soil Sample	5365012
SB10-1 Grab Soil Sample	5365013
SB11-1 Grab Soil Sample	5365014

1 COPY TO

A2L Technologies

Attn: Joe Clemis





Questions? Contact Environmental Client Services

Respectfully Submitted,

*Michele M. Turner*

Michele M. Turner  
Director



Lancaster Laboratories Sample No. SW5364998

Group No. 1091896

SB1-6 Grab Soil Sample  
Ciabattini 050409

Collected: 05/12/2008 14:20 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB16-

CAT			Dry	Dry		Dilution
No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Units	Factor
02829	Trivalent Chromium soils	16065-83-1	35.6	1.8	mg/kg	1
06951	Chromium	7440-47-3	35.6	1.80	mg/kg	1
06955	Lead	7439-92-1	8.15	1.80	mg/kg	1
00111	Moisture	n.a.	18.3	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.8	1.8	mg/kg	1
04514	NY STARS soils by SW846 8260B					
02016	Methyl Tertiary Butyl Ether	1634-04-4	< 6.	6.	ug/kg	0.99
05460	Benzene	71-43-2	< 6.	6.	ug/kg	0.99
05466	Toluene	108-88-3	< 6.	6.	ug/kg	0.99
05474	Ethylbenzene	100-41-4	< 6.	6.	ug/kg	0.99
05475	m+p-Xylene	1330-20-7	< 6.	6.	ug/kg	0.99
05476	o-Xylene	95-47-6	< 6.	6.	ug/kg	0.99
05479	Isopropylbenzene	98-82-8	< 6.	6.	ug/kg	0.99
05483	n-Propylbenzene	103-65-1	< 6.	6.	ug/kg	0.99
05485	1,3,5-Trimethylbenzene	108-67-8	< 6.	6.	ug/kg	0.99
05487	tert-Butylbenzene	98-06-6	< 6.	6.	ug/kg	0.99
05488	1,2,4-Trimethylbenzene	95-63-6	< 6.	6.	ug/kg	0.99
05489	sec-Butylbenzene	135-98-8	< 6.	6.	ug/kg	0.99
05490	p-Isopropyltoluene	99-87-6	< 6.	6.	ug/kg	0.99
05493	n-Butylbenzene	104-51-8	< 6.	6.	ug/kg	0.99
05498	Naphthalene	91-20-3	< 6.	6.	ug/kg	0.99

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 05:54	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 05:54	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1



Lancaster Laboratories Sample No. SW5364998

Group No. 1091896

SB1-6 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/12/2008 14:20 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB16-						
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
04514	NY STARS soils by SW846 8260B	SW-846 8260B	1	05/24/2008 19:13	Chelsea B Eastep	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:01	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	05/17/2008 18:03	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Scipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:04	Lois E Hiltz	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. TL5364999

Group No. 1091896

SB1-6 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ciabattoni 050409

Collected: 05/12/2008 14:20 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00

Reported: 05/29/2008 at 16:21

Discard: 06/13/2008

A2L Technologies

10220 Harney Road

Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Limit of Quantitation		
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.517	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07056	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

If the analysis is for determination of Hazardous Waste Characteristics,  
see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	05/25/2008 08:58	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	05/27/2008 08:21	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	05/28/2008 22:56	John P Hook	1
07046	Barium	SW-846 6010B	1	05/27/2008 08:21	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	05/27/2008 08:21	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	05/27/2008 08:21	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	05/28/2008 22:56	John P Hook	1
07066	Silver	SW-846 6010B	1	05/27/2008 08:21	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	05/21/2008 11:24	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/22/2008 20:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/23/2008 11:50	Damary Valentin	1



Lancaster Laboratories Sample No. SW5365000

Group No. 1091896

SB2-18 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/13/2008 13:59 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB218

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	31.5	1.8	mg/kg	1
06951	Chromium	7440-47-3	32.1	1.77	mg/kg	1
06955	Lead	7439-92-1	6.94	1.77	mg/kg	1
00111	Moisture	n.a.	16.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.8	1.8	mg/kg	1
04514 NY STARS soils by SW846 82608						
02016	Methyl Tertiary Butyl Ether	1634-04-4	< 6.	6.	ug/kg	0.97
05460	Benzene	71-43-2	< 6.	6.	ug/kg	0.97
05466	Toluene	108-88-3	< 6.	6.	ug/kg	0.97
05474	Ethylbenzene	100-41-4	< 6.	6.	ug/kg	0.97
05475	m+p-Xylene	1330-20-7	< 6.	6.	ug/kg	0.97
05476	o-Xylene	95-47-6	< 6.	6.	ug/kg	0.97
05479	Isopropylbenzene	98-82-8	< 6.	6.	ug/kg	0.97
05483	n-Propylbenzene	103-65-1	< 6.	6.	ug/kg	0.97
05485	1,3,5-Trimethylbenzene	108-67-8	< 6.	6.	ug/kg	0.97
05487	tert-Butylbenzene	98-06-6	< 6.	6.	ug/kg	0.97
05488	1,2,4-Trimethylbenzene	95-63-6	< 6.	6.	ug/kg	0.97
05489	sec-Butylbenzene	135-98-8	< 6.	6.	ug/kg	0.97
05490	p-Isopropyltoluene	99-87-6	< 6.	6.	ug/kg	0.97
05493	n-Butylbenzene	104-51-8	< 6.	6.	ug/kg	0.97
05498	Naphthalene	91-20-3	< 6.	6.	ug/kg	0.97

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 05:58	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 05:58	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1



Lancaster Laboratories Sample No. SW5365000

Group No. 1091896

SB2-18 Grab Soil Sample  
Ciabattini 050409

Collected: 05/13/2008 13:59 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB218						
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
04514	NY STARS soils by SW846 8260B	SW-846 8260B	1	05/24/2008 19:36	Chelsea B Eastep	0.97
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:05	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	05/17/2008 18:06	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:07	Lois E Hiltz	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. TL5365001

Group No. 1091896

SB2-18 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ciabattoni 050409

Collected: 05/13/2008 13:59 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Limit of Quantitation		
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.304	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0230	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	05/25/2008 09:00	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	05/27/2008 08:25	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	05/28/2008 23:00	John P Hook	1
07046	Barium	SW-846 6010B	1	05/27/2008 08:25	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	05/27/2008 08:25	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	05/27/2008 08:25	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	05/28/2008 23:00	John P Hook	1
07066	Silver	SW-846 6010B	1	05/27/2008 08:25	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	05/21/2008 11:24	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/22/2008 20:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/23/2008 11:50	Damary Valentin	1



Lancaster Laboratories Sample No. SW5365002

Group No. 1091896

SB3-24 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/13/2008 20:20 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB324

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	21.0	1.7	mg/kg	1
06951	Chromium	7440-47-3	21.3	1.70	mg/kg	1
06955	Lead	7439-92-1	5.62	1.70	mg/kg	1
00111	Moisture	n.a.	12.4	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.7	1.7	mg/kg	1
04514	NY STARS soils by SW846 8260B					
02016	Methyl Tertiary Butyl Ether	1634-04-4	< 5.	5.	ug/kg	0.95
05460	Benzene	71-43-2	< 5.	5.	ug/kg	0.95
05466	Toluene	108-88-3	< 5.	5.	ug/kg	0.95
05474	Ethylbenzene	100-41-4	< 5.	5.	ug/kg	0.95
05475	m+p-Xylene	1330-20-7	< 5.	5.	ug/kg	0.95
05476	o-Xylene	95-47-6	< 5.	5.	ug/kg	0.95
05479	Isopropylbenzene	98-82-8	< 5.	5.	ug/kg	0.95
05483	n-Propylbenzene	103-65-1	< 5.	5.	ug/kg	0.95
05485	1,3,5-Trimethylbenzene	108-67-8	< 5.	5.	ug/kg	0.95
05487	tert-Butylbenzene	98-06-6	< 5.	5.	ug/kg	0.95
05488	1,2,4-Trimethylbenzene	95-63-6	< 5.	5.	ug/kg	0.95
05489	sec-Butylbenzene	135-98-8	< 5.	5.	ug/kg	0.95
05490	p-Isopropyltoluene	99-87-6	< 5.	5.	ug/kg	0.95
05493	n-Butylbenzene	104-51-8	< 5.	5.	ug/kg	0.95
05498	Naphthalene	91-20-3	< 5.	5.	ug/kg	0.95

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 06:03	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 06:03	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1





Lancaster Laboratories Sample No. SW5365002

Group No. 1091896

SB3-24 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/13/2008 20:20 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB324						
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
04514	NY STARS soils by SW846 8260B	SW-846 8260B	1	05/24/2008 19:58	Chelsea B Eastep	0.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:09	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	05/17/2008 18:10	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:11	Lois E Hiltz	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. TL5365003

Group No. 1091896

SB3-24 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ciabattone 050409

Collected: 05/13/2008 20:20 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution
			Result	Limit of Quantitation		
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.613	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	05/25/2008 09:01	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	05/27/2008 08:29	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	05/28/2008 23:03	John P Hook	1
07046	Barium	SW-846 6010B	1	05/27/2008 08:29	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	05/27/2008 08:29	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	05/27/2008 08:29	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	05/28/2008 23:03	John P Hook	1
07066	Silver	SW-846 6010B	1	05/27/2008 08:29	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	05/21/2008 11:24	Jeremy L Weaver	n.a.
05705	NW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/22/2008 20:00	James L Mertz	1
05713	NW SW846 Hg Digest	SW-846 7470A	1	05/23/2008 11:50	Damary Valentin	1



Lancaster Laboratories Sample No. SW5365004

Group No. 1091896

SB4-18 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/14/2008 11:13 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB418

CAT			Dry	Dry		
No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	23.5	1.8	mg/kg	1
06951	Chromium	7440-47-3	23.6	1.77	mg/kg	1
06955	Lead	7439-92-1	21.6	1.77	mg/kg	1
00111	Moisture	n.a.	16.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.8	1.8	mg/kg	1
04514	NY STARS soils by SW846 8260B					
02016	Methyl Tertiary Butyl Ether	1634-04-4	< 290.	290.	ug/kg	48.83
05460	Benzene	71-43-2	< 290.	290.	ug/kg	48.83
05466	Toluene	108-88-3	< 290.	290.	ug/kg	48.83
05474	Ethylbenzene	100-41-4	4,400.	290.	ug/kg	48.83
05475	m+p-Xylene	1330-20-7	13,000.	290.	ug/kg	48.83
05476	o-Xylene	95-47-6	< 290.	290.	ug/kg	48.83
05479	Isopropylbenzene	98-82-8	750.	290.	ug/kg	48.83
05483	n-Propylbenzene	103-65-1	2,400.	290.	ug/kg	48.83
05485	1,3,5-Trimethylbenzene	108-67-8	4,500.	290.	ug/kg	48.83
05487	tert-Butylbenzene	98-06-6	< 290.	290.	ug/kg	48.83
05488	1,2,4-Trimethylbenzene	95-63-6	14,000.	290.	ug/kg	48.83
05489	sec-Butylbenzene	135-98-8	< 290.	290.	ug/kg	48.83
05490	p-Isopropyltoluene	99-87-6	< 290.	290.	ug/kg	48.83
05493	n-Butylbenzene	104-51-8	940.	290.	ug/kg	48.83
05498	Naphthalene	91-20-3	1,500.	290.	ug/kg	48.83

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 06:07	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 06:07	Choon Y Tian	1
00111	Moisture	SM20 2540 G	2	05/21/2008 15:17	Scott W Freisher	1



Lancaster Laboratories Sample No. SW5365004

Group No. 1091896

SB4-18 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/14/2008 11:13 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB418						
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
04514	NY STARS soils by SW846 8260B	SW-846 8260B	1	05/23/2008 17:24	Kerri E Koch	48.83
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:12	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	05/17/2008 18:14	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:15	Lois E Hiltz	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. TL5365005

Group No. 1091896

SB4-18 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ciabattoni 050409

Collected: 05/14/2008 11:13 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00

Reported: 05/29/2008 at 16:21

Discard: 06/13/2008

A2L Technologies

10220 Harney Road

Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Limit of Quantitation	Units	
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.580	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

If the analysis is for determination of Hazardous Waste Characteristics,  
see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	05/25/2008 09:02		Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	05/27/2008 08:33		Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	05/28/2008 23:07		John P Hook	1
07046	Barium	SW-846 6010B	1	05/27/2008 08:33		Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	05/27/2008 08:33		Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	05/27/2008 08:33		Joanne M Gates	1
07055	Lead	SW-846 6010B	1	05/28/2008 23:07		John P Hook	1
07066	Silver	SW-846 6010B	1	05/27/2008 08:33		Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	05/21/2008 11:24		Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/22/2008 20:00		James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/23/2008 11:50		Damary Valentin	1



Lancaster Laboratories Sample No. SW5365006

Group No. 1091896

SB5-8 Grab Soil Sample  
Ciabattini 050409

Collected: 05/14/2008 14:35 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB58-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	18.6	1.7	mg/kg	1
06951	Chromium	7440-47-3	18.9	1.62	mg/kg	1
06955	Lead	7439-92-1	18.7	1.62	mg/kg	1
00111	Moisture	n.a.	10.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.7	1.7	mg/kg	1
04514	NY STARS soils by SW846 82608					
02016	Methyl Tertiary Butyl Ether	1634-04-4	< 6.	6.	ug/kg	1
05460	Benzene	71-43-2	< 6.	6.	ug/kg	1
05466	Toluene	108-88-3	< 6.	6.	ug/kg	1
05474	Ethylbenzene	100-41-4	< 6.	6.	ug/kg	1
05475	m+p-Xylene	1330-20-7	< 6.	6.	ug/kg	1
05476	o-Xylene	95-47-6	< 6.	6.	ug/kg	1
05479	Isopropylbenzene	98-82-8	< 6.	6.	ug/kg	1
05483	n-Propylbenzene	103-65-1	< 6.	6.	ug/kg	1
05485	1,3,5-Trimethylbenzene	108-67-8	< 6.	6.	ug/kg	1
05487	tert-Butylbenzene	98-06-6	< 6.	6.	ug/kg	1
05488	1,2,4-Trimethylbenzene	95-63-6	< 6.	6.	ug/kg	1
05489	sec-Butylbenzene	135-98-8	< 6.	6.	ug/kg	1
05490	p-Isopropyltoluene	99-87-6	< 6.	6.	ug/kg	1
05493	n-Butylbenzene	104-51-8	< 6.	6.	ug/kg	1
05498	Naphthalene	91-20-3	< 6.	6.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 60108 modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 60108	1	05/21/2008 06:12	Choon Y Tian	1
06955	Lead	SW-846 60108	1	05/21/2008 06:12	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Fraisher	1



Lancaster Laboratories Sample No. SW5365006

Group No. 1091896

SB5-8 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/14/2008 14:35 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB58-							
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1	
04514	NY STARS soils by SW846 8260B	SW-846 8260B	1	05/24/2008 20:21	Chelsea B Eastep	1	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:17	Lois E Hiltz	n.a.	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	05/17/2008 18:18	Lois E Hiltz	n.a.	
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1	
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:19	Lois E Hiltz	n.a.	
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1	



Lancaster Laboratories Sample No. TL5365007

Group No. 1091896

SB5-8 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ciabattoni 050409

Collected: 05/14/2008 14:35 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00

Reported: 05/29/2008 at 16:21

Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution
			Result	Limit of Quantitation		
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.317	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	05/25/2008 09:04	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	05/27/2008 08:37	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	05/28/2008 23:11	John P Hook	1
07046	Barium	SW-846 6010B	1	05/27/2008 08:37	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	05/27/2008 08:37	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	05/27/2008 08:37	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	05/28/2008 23:11	John P Hook	1
07066	Silver	SW-846 6010B	1	05/27/2008 08:37	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	05/21/2008 11:24	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/22/2008 20:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/23/2008 11:50	Damary Valentin	1





Lancaster Laboratories Sample No. SW5365008

Group No. 1091896

SB6-18 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/15/2008 15:21 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB618

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	15.2	1.6	mg/kg	1
06951	Chromium	7440-47-3	15.4	1.65	mg/kg	1
06955	Lead	7439-92-1	6.74	1.65	mg/kg	1
00111	Moisture	n.a.	9.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.6	1.6	mg/kg	1
04514	NY STARS soils by SW846 8260B					
02016	Methyl Tertiary Butyl Ether	1634-04-4	< 260.	260.	ug/kg	47.17
05460	Benzene	71-43-2	< 260.	260.	ug/kg	47.17
05466	Toluene	108-88-3	< 260.	260.	ug/kg	47.17
05474	Ethylbenzene	100-41-4	1,100.	260.	ug/kg	47.17
05475	m+p-Xylene	1330-20-7	3,200.	260.	ug/kg	47.17
05476	o-Xylene	95-47-6	510.	260.	ug/kg	47.17
05479	Isopropylbenzene	98-82-8	310.	260.	ug/kg	47.17
05483	n-Propylbenzene	103-65-1	850.	260.	ug/kg	47.17
05485	1,3,5-Trimethylbenzene	108-67-8	1,400.	260.	ug/kg	47.17
05487	tert-Butylbenzene	98-06-6	< 260.	260.	ug/kg	47.17
05488	1,2,4-Trimethylbenzene	95-63-6	4,600.	260.	ug/kg	47.17
05489	sec-Butylbenzene	135-98-8	< 260.	260.	ug/kg	47.17
05490	p-Isopropyltoluene	99-87-6	< 260.	260.	ug/kg	47.17
05493	n-Butylbenzene	104-51-8	< 260.	260.	ug/kg	47.17
05498	Naphthalene	91-20-3	380.	260.	ug/kg	47.17

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trials	Analysis Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 06:16	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 06:16	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1



Lancaster Laboratories Sample No. SW5365008

Group No. 1091896

SB6-18 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/15/2008 15:21 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB618						
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
04514	NY STARS soils by SW846 8260B	SW-846 8260B	1	05/28/2008 18:03	Kerri E Koch	47.17
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:21	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	05/17/2008 18:22	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	05/17/2008 18:22	Lois E Hiltz	n.a.
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. TL5365009

Group No. 1091896

SB6-18 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ciabattone 050409

Collected: 05/15/2008 15:21 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00

A2L Technologies

Reported: 05/29/2008 at 16:21

10220 Harney Road

Discard: 06/13/2008

Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Limit of Quantitation	Units	
00259	Mercury	7439-97-6	< 0.00020	0.00020	mg/l	1
07035	Arsenic	7440-38-2	< 0.0200	0.0200	mg/l	1
07036	Selenium	7782-49-2	< 0.0200	0.0200	mg/l	1
07046	Barium	7440-39-3	0.529	0.0050	mg/l	1
07049	Cadmium	7440-43-9	< 0.0050	0.0050	mg/l	1
07051	Chromium	7440-47-3	< 0.0150	0.0150	mg/l	1
07055	Lead	7439-92-1	< 0.0150	0.0150	mg/l	1
07066	Silver	7440-22-4	< 0.0050	0.0050	mg/l	1

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	05/25/2008 09:05	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	05/27/2008 08:40	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	05/28/2008 23:14	John P Hook	1
07046	Barium	SW-846 6010B	1	05/27/2008 08:40	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	05/27/2008 08:40	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	05/27/2008 08:40	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	05/28/2008 23:14	John P Hook	1
07066	Silver	SW-846 6010B	1	05/27/2008 08:40	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	05/21/2008 11:24	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/22/2008 20:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	05/23/2008 11:50	Damary Valentin	1



Lancaster Laboratories Sample No. SW5365010

Group No. 1091696

SB7 Grab Soil Sample  
Ciabattone 050409

Collected: 05/15/2008 14:32 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

-SB7-

CAT			Dry	Dry		Dilution
No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Units	Factor
02829	Trivalent Chromium soils	16065-83-1	14.3	1.7	mg/kg	1
06951	Chromium	7440-47-3	14.3	1.66	mg/kg	1
06955	Lead	7439-92-1	6.73	1.66	mg/kg	1
00111	Moisture	n.a.	12.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.7	1.7	mg/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 06:20	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 06:20	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. SW5365011

Group No. 1091896

SB8-1 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/15/2008 14:47 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB81-

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	14.7	1.8	mg/kg	1
06951	Chromium	7440-47-3	14.9	1.78	mg/kg	1
06955	Lead	7439-92-1	8.61	1.78	mg/kg	1
00111	Moisture	n.a.	18.4	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.8	1.8	mg/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 06:33	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 06:33	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. SW5365012

Group No. 1091896

SB9-1 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/15/2008 14:55 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008

A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB91-

CAT			Dry	Dry		
No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Units	Dilution Factor
02829	Trivalent Chromium soils	16065-83-1	14.0	1.7	mg/kg	1
06951	Chromium	7440-47-3	14.1	1.62	mg/kg	1
06955	Lead	7439-92-1	9.43	1.62	mg/kg	1
00111	Moisture	n.a.	10.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.7	1.7	mg/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1
06951	Chromium	SW-846 6010B	1	05/21/2008 06:38	Choon Y Tian	1
06955	Lead	SW-846 6010B	1	05/21/2008 06:38	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1



Lancaster Laboratories Sample No. SW5365013

Group No. 1091896

SB10-1 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/16/2008 08:45 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB101

CAT			Dry	Dry			Dilution
No.	Analysis Name	CAS Number	Result	Limit of	Units	Factor	
02829	Trivalent Chromium soils	16065-83-1	21.2	1.8	mg/kg	1	
06951	Chromium	7440-47-3	21.4	1.73	mg/kg	1	
06955	Lead	7439-92-1	244.	1.73	mg/kg	1	
00111	Moisture	n.a.	15.2	0.50	%	1	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.8	1.8	mg/kg	1	

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1	
06951	Chromium	SW-846 6010B	1	05/21/2008 06:42	Choon Y Tian	1	
06955	Lead	SW-846 6010B	1	05/21/2008 06:42	Choon Y Tian	1	
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1	
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1	
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1	
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1	



Lancaster Laboratories Sample No. SW5365014

Group No. 1091896

SB11-1 Grab Soil Sample  
Ciabattoni 050409

Collected: 05/16/2008 08:50 by JC

Account Number: 01907

Submitted: 05/17/2008 10:00  
Reported: 05/29/2008 at 16:21  
Discard: 06/13/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

SB111

CAT			Dry	Dry			Dilution
No.	Analysis Name	CAS Number	Result	Limit of	Units	Factor	
02829	Trivalent Chromium soils	16065-83-1	16.4	1.7	mg/kg	1	
06951	Chromium	7440-47-3	16.7	1.66	mg/kg	1	
06955	Lead	7439-92-1	18.7	1.66	mg/kg	1	
00111	Moisture	n.a.	11.6	0.50	%	1	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	< 1.7	1.7	mg/kg	1	

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Chronicle

CAT				Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
02829	Trivalent Chromium soils	SW-846 6010B modified	1	05/28/2008 11:45	Jennifer L Moyer	1	
06951	Chromium	SW-846 6010B	1	05/21/2008 06:47	Choon Y Tian	1	
06955	Lead	SW-846 6010B	1	05/21/2008 06:47	Choon Y Tian	1	
00111	Moisture	SM20 2540 G	1	05/20/2008 16:38	Scott W Freisher	1	
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	2	05/26/2008 10:35	Daniel S Smith	1	
05708	SW SW846 ICP Digest	SW-846 3050B	1	05/20/2008 19:30	Annamaria Stipkovits	1	
07825	Hexavalent Cr (Extraction)	SW-846 3060A	2	05/26/2008 06:00	Daniel S Smith	1	





## Quality Control Summary

Client Name: A2L Technologies  
Reported: 05/29/08 at 04:21 PM

Group Number: 1091896

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Data	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 081415708002	Sample number(s): 5364998, 5365000, 5365002, 5365004, 5365006, 5365008, 5365010-5365014							
Chromium	< 1.50	1.50	mg/kg	120		79-121		
Lead	< 1.50	1.50	mg/kg	104		90-110		
Batch number: 08141820002B	Sample number(s): 5364998, 5365000, 5365002, 5365006, 5365008, 5365010-5365014							
Moisture				100		99-101		
Batch number: 08142820002A	Sample number(s): 5365004							
Moisture				100		99-101		
Batch number: 081435705003	Sample number(s): 5364999, 5365001, 5365003, 5365005, 5365007, 5365009							
Arsenic	< 0.0200	0.0200	mg/l	102		90-119		
Selenium	< 0.0200	0.0200	mg/l	113		80-120		
Barium	< 0.0050	0.0050	mg/l	92		90-110		
Cadmium	< 0.0050	0.0050	mg/l	90		90-112		
Chromium	< 0.0150	0.0150	mg/l	94		90-110		
Lead	< 0.0150	0.0150	mg/l	109		90-113		
Silver	< 0.0050	0.0050	mg/l	106		90-118		
Batch number: 081435713002	Sample number(s): 5364999, 5365001, 5365003, 5365005, 5365007, 5365009							
Mercury	< 0.00020	0.00020	mg/l	172*		80-120		
Batch number: 08147042501A	Sample number(s): 5364998, 5365000, 5365002, 5365004, 5365006, 5365008, 5365010-5365014							
Hexavalent Chromium (SOLIDS)	< 1.5	1.5	mg/kg	90		80-120		
Batch number: B081451AA	Sample number(s): 5364998, 5365000, 5365002, 5365006							
Methyl Tertiary Butyl Ether	< 5.	5.	ug/kg	96	93	72-117	3	30
Benzene	< 5.	5.	ug/kg	95	97	84-115	2	30
Toluene	< 5.	5.	ug/kg	96	95	81-116	1	30
Ethylbenzene	< 5.	5.	ug/kg	92	94	82-115	2	30
m+p-Xylene	< 5.	5.	ug/kg	91	93	82-117	1	30
o-Xylene	< 5.	5.	ug/kg	92	92	82-117	0	30
Isopropylbenzene	< 5.	5.	ug/kg	88	87	82-110	1	30
n-Propylbenzene	< 5.	5.	ug/kg	94	96	76-122	2	30
1,3,5-Trimethylbenzene	< 5.	5.	ug/kg	91	92	74-112	1	30
tert-Butylbenzene	< 5.	5.	ug/kg	88	87	72-113	1	30
1,2,4-Trimethylbenzene	< 5.	5.	ug/kg	92	93	74-117	1	30
sec-Butylbenzene	< 5.	5.	ug/kg	91	90	66-120	1	30
p-Isopropyltoluene	< 5.	5.	ug/kg	88	89	63-119	1	30
n-Butylbenzene	< 5.	5.	ug/kg	82	82	59-120	0	30
Naphthalene	< 5.	5.	ug/kg	95	86	62-116	10	30
Batch number: Q081441AA	Sample number(s): 5365004							

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 05/29/08 at 04:21 PM

Group Number: 1091896

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	< 250.	250.	ug/kg	103	100	72-117	2	30
Benzene	< 250.	250.	ug/kg	100	97	84-115	2	30
Toluene	< 250.	250.	ug/kg	94	92	81-116	2	30
Ethylbenzene	< 250.	250.	ug/kg	93	91	82-115	2	30
m+p-Xylene	< 250.	250.	ug/kg	92	90	82-117	2	30
o-Xylene	< 250.	250.	ug/kg	92	91	82-117	1	30
Isopropylbenzene	< 250.	250.	ug/kg	89	88	82-110	1	30
n-Propylbenzene	< 250.	250.	ug/kg	85	84	76-122	1	30
1,3,5-Trimethylbenzene	< 250.	250.	ug/kg	88	86	74-112	2	30
tert-Butylbenzene	< 250.	250.	ug/kg	82	79	72-113	4	30
1,2,4-Trimethylbenzene	< 250.	250.	ug/kg	89	87	74-117	2	30
sec-Butylbenzene	< 250.	250.	ug/kg	74	74	66-120	1	30
p-Isopropyltoluene	< 250.	250.	ug/kg	78	77	63-119	1	30
n-Butylbenzene	< 250.	250.	ug/kg	70	70	59-120	0	30
Naphthalene	< 250.	250.	ug/kg	70	70	62-116	1	30

Batch number: Q081491AA	Sample number(s): 5365008
Methyl Tertiary Butyl Ether	< 250. 250. ug/kg 106 72-117
Benzene	< 250. 250. ug/kg 106 84-115
Toluene	< 250. 250. ug/kg 94 81-116
Ethylbenzene	< 250. 250. ug/kg 94 82-115
m+p-Xylene	< 250. 250. ug/kg 94 82-117
o-Xylene	< 250. 250. ug/kg 93 82-117
Isopropylbenzene	< 250. 250. ug/kg 91 82-110
n-Propylbenzene	< 250. 250. ug/kg 85 76-122
1,3,5-Trimethylbenzene	< 250. 250. ug/kg 88 74-112
tert-Butylbenzene	< 250. 250. ug/kg 79 72-113
1,2,4-Trimethylbenzene	< 250. 250. ug/kg 88 74-117
sec-Butylbenzene	< 250. 250. ug/kg 75 66-120
p-Isopropyltoluene	< 250. 250. ug/kg 77 63-119
n-Butylbenzene	< 250. 250. ug/kg 70 59-120
Naphthalene	< 250. 250. ug/kg 69 62-116

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 081415708002	Sample number(s): 5364998, 5365000, 5365002, 5365004, 5365006, 5365008, 5365010-5365014 UNSPK: P361417 BKG: P361417								
Chromium	108	107	75-125	0	20	17.9	18.3	2	20
Lead	-169	66 (2)	75-125	19	20	153.	178.	15	20
	(2)								
Batch number: 08141820002B	Sample number(s): 5364998, 5365000, 5365002, 5365006, 5365008, 5365010-5365014 BKG: P360605								
Moisture						20.8	21.7	5	15
Batch number: 08142820002A	Sample number(s): 5365004 BKG: 5365004								
Moisture						16.9	19.5	14	15

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 05/29/08 at 04:21 PM

Group Number: 1091896

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 081435705003	Sample number(s): 5364999, 5365001, 5365003, 5365005, 5365007, 5365009 UNSPK: P364569 BKG: P364569								
Arsenic	111	108	75-125	3	20	< 0.0200	< 0.0200	0 (1)	20
Selenium	108	109	75-125	0	20	< 0.0200	< 0.0200	0 (1)	20
Barium	88	85	78-118	2	20	0.838	0.814	3	20
Cadmium	91	88	83-116	2	20	< 0.0050	< 0.0050	2 (1)	20
Chromium	90	90	81-120	1	20	< 0.0150	< 0.0150	20 (1)	20
Lead	105	105	75-125	0	20	< 0.0150	< 0.0150	0 (1)	20
Silver	104	102	75-125	2	20	< 0.0050	< 0.0050	0 (1)	20
Batch number: 081435713002	Sample number(s): 5364999, 5365001, 5365003, 5365005, 5365007, 5365009 UNSPK: P364567 BKG: P364567								
Mercury	117	117	80-120	0	20	< 0.00020	< 0.00020	0 (1)	20
Batch number: 08147042501A	Sample number(s): 5364998, 5365000, 5365002, 5365004, 5365006, 5365008, 5365010- 5365014 UNSPK: P361213 BKG: P361213								
Hexavalent Chromium (SOLIDS)	86	96	75-125	12*	11	< 1.5	< 1.5	200* (1)	20
Batch number: B081451AA	Sample number(s): 5364998, 5365000, 5365002, 5365006 UNSPK: P364752								
Methyl Tertiary Butyl Ether	89		59-119						
Benzene	93		66-112						
Toluene	90		58-116						
Ethylbenzene	82		54-116						
m+p-Xylene	81		52-117						
o-Xylene	79		52-117						
Isopropylbenzene	77		54-113						
n-Propylbenzene	89		54-119						
1,3,5-Trimethylbenzene	84		52-117						
tert-Butylbenzene	86		51-116						
1,2,4-Trimethylbenzene	81		47-122						
sec-Butylbenzene	88		48-120						
p-Isopropyltoluene	82		51-118						
n-Butylbenzene	73		35-120						
Naphthalene	43		10-123						
Batch number: Q081491AA	Sample number(s): 5365008 UNSPK: P363004								
Methyl Tertiary Butyl Ether	109	99	59-119	6	30				
Benzene	103	96	66-112	3	30				
Toluene	93	87	58-116	3	30				
Ethylbenzene	95	88	54-116	4	30				
m+p-Xylene	96	88	52-117	5	30				
o-Xylene	99	89	52-117	8	30				
Isopropylbenzene	98	87	54-113	7	30				
n-Propylbenzene	92	82	54-119	8	30				
1,3,5-Trimethylbenzene	114	85	52-117	25	30				
tert-Butylbenzene	90	80	51-116	8	30				
1,2,4-Trimethylbenzene	133*	87	47-122	38*	30				
sec-Butylbenzene	84	73	48-120	9	30				
p-Isopropyltoluene	88	76	51-118	11	30				
n-Butylbenzene	77	69	35-120	7	30				
Naphthalene	80	69	10-123	11	30				

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 05/29/08 at 04:21 PM

Group Number: 1091896

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
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## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NY STARS soils by SW846 8260B

Batch number: B081451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5364998	90	86	90	82
5365000	90	86	89	82
5365002	89	83	90	87
5365006	87	84	93	78
Blank	92	91	90	85
LCS	92	89	92	88
LCSD	90	84	91	87
MS	90	85	95	82
Limits:	71-114	70-109	70-123	70-111

Analysis Name: NY STARS soils by SW846 8260B

Batch number: Q081441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5365004	86	85	81	81
Blank	103	100	93	88
LCS	90	84	81	94
LCSD	86	81	78	90
Limits:	71-114	70-109	70-123	70-111

Analysis Name: NY STARS soils by SW846 8260B

Batch number: Q081491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5365008	99	96	83	84
Blank	106	100	88	85
LCS	112	106	95	94
MS	91	88	75	79
MSD	95	89	80	81
Limits:	71-114	70-109	70-123	70-111

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories Sample No. 5366075 AQ

Group No. 1092117

Summa Can #83 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 1.0	1.0	ppb(v)	< 3.0	3.0	ug/m3	1
07201	Propene	115-07-1	310.	20.	ppb(v)	540.	34.	ug/m3	20
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb(v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb(v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb(v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb(v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb(v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	3.6	2.0	ppb(v)	7.9	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb(v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	< 1.0	1.0	ppb(v)	< 2.6	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb(v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb(v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	61.	10.	ppb(v)	180.	30.	ug/m3	10
07214	Acrolein	107-02-8	< 2.0	2.0	ppb(v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	< 1.0	1.0	ppb(v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	350.	40.	ppb(v)	830.	95.	ug/m3	20
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb(v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	23.	2.0	ppb(v)	71.	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb(v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb(v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb(v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb(v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb(v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb(v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	19.	10.	ppb(v)	66.	35.	ug/m3	10
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb(v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb(v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb(v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	8.6	2.0	ppb(v)	25.	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb(v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb(v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	16.	10.	ppb(v)	80.	49.	ug/m3	10
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb(v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb(v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb(v)	< 4.0	4.0	ug/m3	1



Lancaster Laboratories Sample No. 5366075 AQ

Group No. 1092117

Summa Can #83 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	LOQ		Result	LOQ		
07238	Benzene	71-43-2	15.	1.0	ppb (v)	49.	3.2	ug/m3	1
07239	Isooctane	540-84-1	4.5	1.0	ppb (v)	21.	4.7	ug/m3	1
07240	Heptane	142-82-5	15.	1.0	ppb (v)	63.	4.1	ug/m3	1
07241	Trichloroethene	79-01-6	< 1.0	1.0	ppb (v)	< 5.4	5.4	ug/m3	1
07242	Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07244	Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07245	Dibromomethane	74-95-3	< 1.0	1.0	ppb (v)	< 7.1	7.1	ug/m3	1
07246	1,4-Dioxane	123-91-1	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07247	Bromodichloromethane	75-27-4	< 1.0	1.0	ppb (v)	< 6.7	6.7	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07249	4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07250	Toluene	108-88-3	45.	10.	ppb (v)	170.	38.	ug/m3	10
07251	Octane	111-65-9	12.	1.0	ppb (v)	58.	4.7	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07253	Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07255	Tetrachloroethene	127-18-4	2.7	1.0	ppb (v)	18.	6.8	ug/m3	1
07256	2-Hexanone	591-78-6	2.8	2.0	ppb (v)	11.	8.2	ug/m3	1
07257	Dibromochloromethane	124-48-1	< 1.0	1.0	ppb (v)	< 8.5	8.5	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb (v)	< 7.7	7.7	ug/m3	1
07259	Chlorobenzene	108-90-7	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07261	Ethylbenzene	100-41-4	12.	1.0	ppb (v)	52.	4.3	ug/m3	1
07262	m/p-Xylene	1330-20-7	42.	1.0	ppb (v)	180.	4.3	ug/m3	1
07263	o-Xylene	95-47-6	12.	1.0	ppb (v)	54.	4.3	ug/m3	1
07264	Styrene	100-42-5	1.4	1.0	ppb (v)	5.9	4.3	ug/m3	1
07265	Bromoform	75-25-2	< 1.0	1.0	ppb (v)	< 10.	10.	ug/m3	1
07266	Cumene	98-82-8	1.1	1.0	ppb (v)	5.4	4.9	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07268	1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07269	Bromobenzene	108-86-1	< 1.0	1.0	ppb (v)	< 6.4	6.4	ug/m3	1
07270	4-Ethyltoluene	622-96-8	11.	1.0	ppb (v)	55.	4.9	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	2.7	1.0	ppb (v)	13.	4.9	ug/m3	1
07272	Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb (v)	< 4.8	4.8	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	8.2	1.0	ppb (v)	40.	4.9	ug/m3	1
07274	1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07278	Hexachloroethane	67-72-1	5.8	1.0	ppb (v)	56.	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366075 AQ

Group No. 1092117

Summa Can #03 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30

A2L Technologies

Reported: 06/13/2008 at 10:49

10220 Harney Road

Discard: 06/28/2008

Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	LOQ	Units	As Received	LOQ	Units	DP
			Final Result			Final Result			
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was detected at an estimated concentration of 7 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/29/2008 21:05	Jonathan K Nardelli	1
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 13:03	Fanella S Zamcho	10
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 15:55	Fanella S Zamcho	20



Lancaster Laboratories Sample No. 5366076 AQ

Group No. 1092117

Summa Can #333 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008AZL Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07201	Propene	115-07-1	< 1.0	1.0	ppb (v)	< 1.7	1.7	ug/m3	1
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb (v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb (v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	< 2.0	2.0	ppb (v)	< 4.4	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb (v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb (v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb (v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07214	Acrolein	107-02-8	< 2.0	2.0	ppb (v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb (v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	7.7	2.0	ppb (v)	18.	4.8	ug/m3	1
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb (v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	< 2.0	2.0	ppb (v)	< 6.2	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb (v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb (v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb (v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	2.2	2.0	ppb (v)	6.6	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb (v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1





Lancaster Laboratories Sample No. 5366076 AQ

Group No. 1092117

Summa Can #333 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	LOQ		Result	LOQ		
07238	Benzene	71-43-2	< 1.0	1.0	ppb (v)	< 3.2	3.2	ug/m3	1
07239	Isooctane	540-84-1	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07240	Heptane	142-82-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07241	Trichloroethene	79-01-6	< 1.0	1.0	ppb (v)	< 5.4	5.4	ug/m3	1
07242	Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07244	Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07245	Dibromomethane	74-95-3	< 1.0	1.0	ppb (v)	< 7.1	7.1	ug/m3	1
07246	1,4-Dioxane	123-91-1	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07247	Bromodichloromethane	75-27-4	< 1.0	1.0	ppb (v)	< 6.7	6.7	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07249	4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07250	Toluene	108-88-3	< 1.0	1.0	ppb (v)	< 3.8	3.8	ug/m3	1
07251	Octane	111-65-9	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07253	Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07255	Tetrachloroethene	127-18-4	< 1.0	1.0	ppb (v)	< 6.8	6.8	ug/m3	1
07256	2-Hexanone	591-78-6	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07257	Dibromochloromethane	124-48-1	< 1.0	1.0	ppb (v)	< 8.5	8.5	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb (v)	< 7.7	7.7	ug/m3	1
07259	Chlorobenzene	108-90-7	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07261	Ethylbenzene	100-41-4	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07262	m/p-Xylene	1330-20-7	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07263	o-Xylene	95-47-6	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07264	Styrene	100-42-5	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07265	Bromoform	75-25-2	< 1.0	1.0	ppb (v)	< 10.	10.	ug/m3	1
07266	Cumene	98-82-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07268	1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07269	Bromobenzene	108-86-1	< 1.0	1.0	ppb (v)	< 6.4	6.4	ug/m3	1
07270	4-Ethyltoluene	622-96-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07272	Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb (v)	< 4.8	4.8	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07274	1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07278	Hexachloroethane	67-72-1	< 1.0	1.0	ppb (v)	< 9.7	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366076 AQ

Group No. 1092117

Summa Can #333 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was detected at an estimated concentration of 3 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/29/2008 21:50	Jonathan K Nardelli	1



Lancaster Laboratories Sample No. 5366077 AQ

Group No. 1092117

Summa Can #343 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	3.2	1.0	ppb (v)	9.6	3.0	ug/m3	1
07201	Propene	115-07-1	370.	20.	ppb (v)	630.	34.	ug/m3	20
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb (v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb (v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	4.5	2.0	ppb (v)	9.9	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb (v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb (v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb (v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	38.	20.	ppb (v)	110.	59.	ug/m3	20
07214	Acrolein	107-02-8	< 2.0	2.0	ppb (v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb (v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	430.	40.	ppb (v)	1,000.	95.	ug/m3	20
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb (v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	3.7	2.0	ppb (v)	12.	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb (v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb (v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb (v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	13.	1.0	ppb (v)	44.	3.5	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	14.	2.0	ppb (v)	42.	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	17.	1.0	ppb (v)	81.	4.9	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb (v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1



Lancaster Laboratories Sample No. 5366077 AQ

Group No. 1092117

Summa Can #343 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final	LOQ	Units	As Received Final	LOQ	Units	DP
			Result			Result			
07238	Benzene	71-43-2	7.0	1.0	ppb (v)	22.	3.2	ug/m3	1
07239	Isooctane	540-84-1	1.8	1.0	ppb (v)	8.2	4.7	ug/m3	1
07240	Heptane	142-82-5	14.	1.0	ppb (v)	59.	4.1	ug/m3	1
07241	Trichloroethene	79-01-6	< 1.0	1.0	ppb (v)	< 5.4	5.4	ug/m3	1
07242	Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07244	Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07245	Dibromomethane	74-95-3	< 1.0	1.0	ppb (v)	< 7.1	7.1	ug/m3	1
07246	1,4-Dioxane	123-91-1	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07247	Bromodichloromethane	75-27-4	< 1.0	1.0	ppb (v)	< 6.7	6.7	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07249	4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07250	Toluene	108-88-3	32.	20.	ppb (v)	120.	75.	ug/m3	20
07251	Octane	111-65-9	5.4	1.0	ppb (v)	25.	4.7	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07253	Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07255	Tetrachloroethene	127-18-4	1.4	1.0	ppb (v)	9.7	6.8	ug/m3	1
07256	2-Hexanone	591-78-6	5.0	2.0	ppb (v)	20.	8.2	ug/m3	1
07257	Dibromochloromethane	124-48-1	< 1.0	1.0	ppb (v)	< 8.5	8.5	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb (v)	< 7.7	7.7	ug/m3	1
07259	Chlorobenzene	108-90-7	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07261	Ethylbenzene	100-41-4	6.5	1.0	ppb (v)	28.	4.3	ug/m3	1
07262	m/p-Xylene	1330-20-7	22.	1.0	ppb (v)	94.	4.3	ug/m3	1
07263	o-Xylene	95-47-6	6.3	1.0	ppb (v)	27.	4.3	ug/m3	1
07264	Styrene	100-42-5	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07265	Bromoform	75-25-2	< 1.0	1.0	ppb (v)	< 10.	10.	ug/m3	1
07266	Cumene	98-82-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07268	1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07269	Bromobenzene	108-86-1	< 1.0	1.0	ppb (v)	< 6.4	6.4	ug/m3	1
07270	4-Ethyltoluene	622-96-8	5.1	1.0	ppb (v)	25.	4.9	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	1.3	1.0	ppb (v)	6.5	4.9	ug/m3	1
07272	Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb (v)	< 4.8	4.8	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	4.0	1.0	ppb (v)	20.	4.9	ug/m3	1
07274	1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07278	Hexachloroethane	67-72-1	3.7	1.0	ppb (v)	36.	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366077 AQ

Group No. 1092117

Summa Can #343 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was detected at an estimated concentration of 15 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/29/2008 22:35	Jonathan K Nardelli	1
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 16:38	Fanella S Zamcho	20



Lancaster Laboratories Sample No. 5366078 AQ

Group No. 1092117

Summa Can #324 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07201	Propene	115-07-1	1.7	1.0	ppb (v)	2.9	1.7	ug/m3	1
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb (v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb (v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	< 2.0	2.0	ppb (v)	< 4.4	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb (v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb (v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb (v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	1.2	1.0	ppb (v)	3.4	3.0	ug/m3	1
07214	Acrolein	107-02-8	< 2.0	2.0	ppb (v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethane	75-35-4	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb (v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	51.	20.	ppb (v)	120.	48.	ug/m3	10
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb (v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	< 2.0	2.0	ppb (v)	< 6.2	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb (v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb (v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb (v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	2.3	2.0	ppb (v)	6.7	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb (v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1



Lancaster Laboratories Sample No. 5366078 AQ

Group No. 1092117

Summa Can #324 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DP
07238	Benzene	71-43-2	< 1.0	1.0	ppb (v)	< 3.2	3.2	ug/m3	1
07239	Isooctane	540-84-1	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07240	Heptane	142-82-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07241	Trichloroethene	79-01-6	< 1.0	1.0	ppb (v)	< 5.4	5.4	ug/m3	1
07242	Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07244	Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07245	Dibromomethane	74-95-3	< 1.0	1.0	ppb (v)	< 7.1	7.1	ug/m3	1
07246	1,4-Dioxane	123-91-1	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07247	Bromodichloromethane	75-27-4	< 1.0	1.0	ppb (v)	< 6.7	6.7	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07249	4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07250	Toluene	108-88-3	< 1.0	1.0	ppb (v)	< 3.8	3.8	ug/m3	1
07251	Octane	111-65-9	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07253	Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07255	Tetrachloroethene	127-18-4	< 1.0	1.0	ppb (v)	< 6.8	6.8	ug/m3	1
07256	2-Hexanone	591-78-6	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07257	Dibromochloromethane	124-48-1	< 1.0	1.0	ppb (v)	< 8.5	8.5	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb (v)	< 7.7	7.7	ug/m3	1
07259	Chlorobenzene	108-90-7	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07261	Ethylbenzene	100-41-4	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07262	m/p-Xylene	1330-20-7	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07263	o-Xylene	95-47-6	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07264	Styrene	100-42-5	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07265	Bromoform	75-25-2	< 1.0	1.0	ppb (v)	< 10.	10.	ug/m3	1
07266	Cumene	98-82-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07268	1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07269	Bromobenzene	108-86-1	< 1.0	1.0	ppb (v)	< 6.4	6.4	ug/m3	1
07270	4-Ethyltoluene	622-96-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07272	Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb (v)	< 4.8	4.8	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07274	1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07278	Hexachloroethane	67-72-1	< 1.0	1.0	ppb (v)	< 9.7	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366078 AQ

Group No. 1092117

Summa Can #324 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:48 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30

A2L Technologies

Reported: 06/13/2008 at 10:49

10220 Harney Road

Discard: 06/28/2008

Thonotosassa FL 33592

CAT	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DP
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was detected at an estimated concentration of 7 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/29/2008 23:20	Jonathan K Nardelli	1
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 14:29	Patella S Zamcho	10





Lancaster Laboratories Sample No. 5366079 AQ

Group No. 1092117

Summa Can #514 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:46 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	LOQ	Units	As Received	LOQ	Units	DF
			Final Result			Final Result			
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 20.	20.	ppb (v)	< 61.	61.	ug/m3	20
07201	Propene	115-07-1	25.	20.	ppb (v)	44.	34.	ug/m3	20
07202	Dichlorodifluoromethane	75-71-8	< 20.	20.	ppb (v)	< 99.	99.	ug/m3	20
07203	Chlorodifluoromethane	75-45-6	< 20.	20.	ppb (v)	< 71.	71.	ug/m3	20
07204	Freon 114	76-14-2	< 20.	20.	ppb (v)	< 140.	140.	ug/m3	20
07205	Chloromethane	74-87-3	< 20.	20.	ppb (v)	< 41.	41.	ug/m3	20
07206	Vinyl Chloride	75-01-4	< 20.	20.	ppb (v)	< 51.	51.	ug/m3	20
07207	1,3-Butadiene	106-99-0	< 40.	40.	ppb (v)	< 88.	88.	ug/m3	20
07208	Bromomethane	74-83-9	< 20.	20.	ppb (v)	< 78.	78.	ug/m3	20
07209	Chloroethane	75-00-3	< 20.	20.	ppb (v)	< 53.	53.	ug/m3	20
07210	Dichlorofluoromethane	75-43-4	< 20.	20.	ppb (v)	< 84.	84.	ug/m3	20
07212	Trichlorofluoromethane	75-69-4	< 20.	20.	ppb (v)	< 110.	110.	ug/m3	20
07213	Pentane	109-66-0	91.	20.	ppb (v)	270.	59.	ug/m3	20
07214	Acrolein	107-02-8	< 40.	40.	ppb (v)	< 92.	92.	ug/m3	20
07215	1,1-Dichloroethene	75-35-4	< 20.	20.	ppb (v)	< 79.	79.	ug/m3	20
07216	Freon 113	76-13-1	< 40.	40.	ppb (v)	< 310.	310.	ug/m3	20
07217	Acetone	67-64-1	160.	40.	ppb (v)	390.	95.	ug/m3	20
07218	Methyl Iodide	74-88-4	< 20.	20.	ppb (v)	< 120.	120.	ug/m3	20
07219	Carbon Disulfide	75-15-0	< 40.	40.	ppb (v)	< 120.	120.	ug/m3	20
07220	Acetonitrile	75-05-8	< 40.	40.	ppb (v)	< 67.	67.	ug/m3	20
07221	3-Chloropropene	107-05-1	< 20.	20.	ppb (v)	< 63.	63.	ug/m3	20
07222	Methylene Chloride	75-09-2	< 20.	20.	ppb (v)	< 69.	69.	ug/m3	20
07223	Acrylonitrile	107-13-1	< 40.	40.	ppb (v)	< 87.	87.	ug/m3	20
07224	trans-1,2-Dichloroethene	156-60-5	< 20.	20.	ppb (v)	< 79.	79.	ug/m3	20
07225	Methyl t-Butyl Ether	1634-04-4	< 20.	20.	ppb (v)	< 72.	72.	ug/m3	20
07226	Hexane	110-54-3	< 20.	20.	ppb (v)	< 70.	70.	ug/m3	20
07227	1,1-Dichloroethane	75-34-3	< 20.	20.	ppb (v)	< 81.	81.	ug/m3	20
07228	Vinyl Acetate	108-05-4	< 20.	20.	ppb (v)	< 70.	70.	ug/m3	20
07230	cis-1,2-Dichloroethene	156-59-2	< 20.	20.	ppb (v)	< 79.	79.	ug/m3	20
07231	2-Butanone	78-93-3	110.	40.	ppb (v)	310.	120.	ug/m3	20
07232	Ethyl Acetate	141-78-6	< 20.	20.	ppb (v)	< 72.	72.	ug/m3	20
07233	Methyl Acrylate	96-33-3	< 20.	20.	ppb (v)	< 70.	70.	ug/m3	20
07234	Chloroform	67-66-3	< 20.	20.	ppb (v)	< 98.	98.	ug/m3	20
07235	1,1,1-Trichloroethane	71-55-6	< 20.	20.	ppb (v)	< 110.	110.	ug/m3	20
07236	Carbon Tetrachloride	56-23-5	< 20.	20.	ppb (v)	< 130.	130.	ug/m3	20
07237	1,2-Dichloroethane	107-06-2	< 20.	20.	ppb (v)	< 81.	81.	ug/m3	20



Lancaster Laboratories Sample No. 5366079 AQ

Group No. 1092117

Summa Can #514 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:46 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07238	Benzene	71-43-2	< 20.	20.	ppb (v)	< 64.	64.	ug/m3	20
07239	Isooctane	540-84-1	< 20.	20.	ppb (v)	< 93.	93.	ug/m3	20
07240	Heptane	142-82-5	< 20.	20.	ppb (v)	< 82.	82.	ug/m3	20
07241	Trichloroethene	79-01-6	< 20.	20.	ppb (v)	< 110.	110.	ug/m3	20
07242	Ethyl Acrylate	140-88-5	< 20.	20.	ppb (v)	< 82.	82.	ug/m3	20
07243	1,2-Dichloropropane	78-87-5	< 20.	20.	ppb (v)	< 92.	92.	ug/m3	20
07244	Methyl Methacrylate	80-62-6	< 20.	20.	ppb (v)	< 82.	82.	ug/m3	20
07245	Dibromomethane	74-95-3	< 20.	20.	ppb (v)	< 140.	140.	ug/m3	20
07246	1,4-Dioxane	123-91-1	< 20.	20.	ppb (v)	< 72.	72.	ug/m3	20
07247	Bromodichloromethane	75-27-4	< 20.	20.	ppb (v)	< 130.	130.	ug/m3	20
07248	cis-1,3-Dichloropropene	10061-01-5	< 20.	20.	ppb (v)	< 91.	91.	ug/m3	20
07249	4-Methyl-2-Pentanone	108-10-1	< 40.	40.	ppb (v)	< 160.	160.	ug/m3	20
07250	Toluene	108-88-3	< 20.	20.	ppb (v)	< 75.	75.	ug/m3	20
07251	Octane	111-65-9	< 20.	20.	ppb (v)	< 93.	93.	ug/m3	20
07252	trans-1,3-Dichloropropene	10061-02-6	< 20.	20.	ppb (v)	< 91.	91.	ug/m3	20
07253	Ethyl Methacrylate	97-63-2	< 20.	20.	ppb (v)	< 93.	93.	ug/m3	20
07254	1,1,2-Trichloroethane	79-00-5	< 20.	20.	ppb (v)	< 110.	110.	ug/m3	20
07255	Tetrachloroethene	127-18-4	< 20.	20.	ppb (v)	< 140.	140.	ug/m3	20
07256	2-Hexanone	591-78-6	< 40.	40.	ppb (v)	< 160.	160.	ug/m3	20
07257	Dibromochloromethane	124-48-1	< 20.	20.	ppb (v)	< 170.	170.	ug/m3	20
07258	1,2-Dibromoethane	106-93-4	< 20.	20.	ppb (v)	< 150.	150.	ug/m3	20
07259	Chlorobenzene	108-90-7	< 20.	20.	ppb (v)	< 92.	92.	ug/m3	20
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 20.	20.	ppb (v)	< 140.	140.	ug/m3	20
07261	Ethylbenzene	100-41-4	< 20.	20.	ppb (v)	< 87.	87.	ug/m3	20
07262	m/p-Xylene	1330-20-7	< 20.	20.	ppb (v)	< 87.	87.	ug/m3	20
07263	o-Xylene	95-47-6	< 20.	20.	ppb (v)	< 87.	87.	ug/m3	20
07264	Styrene	100-42-5	< 20.	20.	ppb (v)	< 85.	85.	ug/m3	20
07265	Bromoform	75-25-2	< 20.	20.	ppb (v)	< 210.	210.	ug/m3	20
07266	Cumene	98-82-8	< 20.	20.	ppb (v)	< 98.	98.	ug/m3	20
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 20.	20.	ppb (v)	< 140.	140.	ug/m3	20
07268	1,2,3-Trichloropropane	96-18-4	< 20.	20.	ppb (v)	< 120.	120.	ug/m3	20
07269	Bromobenzene	108-86-1	< 20.	20.	ppb (v)	< 130.	130.	ug/m3	20
07270	4-Ethyltoluene	622-96-8	< 20.	20.	ppb (v)	< 98.	98.	ug/m3	20
07271	1,3,5-Trimethylbenzene	108-67-8	< 20.	20.	ppb (v)	< 98.	98.	ug/m3	20
07272	Alpha Methyl Styrene	98-83-9	< 20.	20.	ppb (v)	< 97.	97.	ug/m3	20
07273	1,2,4-Trimethylbenzene	95-63-6	< 20.	20.	ppb (v)	< 98.	98.	ug/m3	20
07274	1,3-Dichlorobenzene	541-73-1	< 20.	20.	ppb (v)	< 120.	120.	ug/m3	20
07275	1,4-Dichlorobenzene	106-46-7	< 20.	20.	ppb (v)	< 120.	120.	ug/m3	20
07277	1,2-Dichlorobenzene	95-50-1	< 20.	20.	ppb (v)	< 120.	120.	ug/m3	20
07278	Hexachloroethane	67-72-1	< 20.	20.	ppb (v)	< 190.	190.	ug/m3	20



Lancaster Laboratories Sample No. 5366079 AQ

Group No. 1092117

Summa Can #514 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:46 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30

A2L Technologies

Reported: 06/13/2008 at 10:49

10220 Harney Road

Discard: 06/28/2008

Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07279	1,2,4-Trichlorobenzene	120-82-1	< 40.	40.	ppb(v)	< 300.	300.	ug/m3	20
07280	Hexachlorobutadiene	87-68-3	< 40.	40.	ppb(v)	< 430.	430.	ug/m3	20

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

Isopropanol was detected at an estimated concentration of 19000 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 00:03	Jonathan K Nardelli	20



Lancaster Laboratories Sample No. 5366080 AQ

Group No. 1092117

Summa Can #508 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:46 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received	LOQ	Units	As Received	LOQ	Units	DF
			Final Result			Final Result			
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07201	Propene	115-07-1	< 1.0	1.0	ppb (v)	< 1.7	1.7	ug/m3	1
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb (v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb (v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	< 2.0	2.0	ppb (v)	< 4.4	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb (v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	7.1	1.0	ppb (v)	19.	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb (v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb (v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07214	Acrolein	107-02-8	< 2.0	2.0	ppb (v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb (v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	12.	2.0	ppb (v)	28.	4.8	ug/m3	1
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb (v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	< 2.0	2.0	ppb (v)	< 6.2	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb (v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb (v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb (v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	2.4	2.0	ppb (v)	6.9	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb (v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1



Lancaster Laboratories Sample No. 5366080 AQ

Group No. 1092117

Summa Can #508 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:46 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final	LOQ	Units	As Received Final	LOQ	Units	DF
			Result			Result			
07238	Benzene	71-43-2	< 1.0	1.0	ppb(v)	< 3.2	3.2	ug/m3	1
07239	Isooctane	540-84-1	< 1.0	1.0	ppb(v)	< 4.7	4.7	ug/m3	1
07240	Heptane	142-82-5	< 1.0	1.0	ppb(v)	< 4.1	4.1	ug/m3	1
07241	Trichloroethene	79-01-6	< 1.0	1.0	ppb(v)	< 5.4	5.4	ug/m3	1
07242	Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb(v)	< 4.1	4.1	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb(v)	< 4.6	4.6	ug/m3	1
07244	Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb(v)	< 4.1	4.1	ug/m3	1
07245	Dibromomethane	74-95-3	< 1.0	1.0	ppb(v)	< 7.1	7.1	ug/m3	1
07246	1,4-Dioxane	123-91-1	< 1.0	1.0	ppb(v)	< 3.6	3.6	ug/m3	1
07247	Bromodichloromethane	75-27-4	< 1.0	1.0	ppb(v)	< 6.7	6.7	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb(v)	< 4.5	4.5	ug/m3	1
07249	4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb(v)	< 8.2	8.2	ug/m3	1
07250	Toluene	108-88-3	< 1.0	1.0	ppb(v)	< 3.8	3.8	ug/m3	1
07251	Octane	111-65-9	< 1.0	1.0	ppb(v)	< 4.7	4.7	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb(v)	< 4.5	4.5	ug/m3	1
07253	Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb(v)	< 4.7	4.7	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb(v)	< 5.5	5.5	ug/m3	1
07255	Tetrachloroethene	127-18-4	< 1.0	1.0	ppb(v)	< 6.8	6.8	ug/m3	1
07256	2-Hexanone	591-78-6	< 2.0	2.0	ppb(v)	< 8.2	8.2	ug/m3	1
07257	Dibromochloromethane	124-48-1	< 1.0	1.0	ppb(v)	< 8.5	8.5	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb(v)	< 7.7	7.7	ug/m3	1
07259	Chlorobenzene	108-90-7	< 1.0	1.0	ppb(v)	< 4.6	4.6	ug/m3	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb(v)	< 6.9	6.9	ug/m3	1
07261	Ethylbenzene	100-41-4	< 1.0	1.0	ppb(v)	< 4.3	4.3	ug/m3	1
07262	m/p-Xylene	1330-20-7	< 1.0	1.0	ppb(v)	< 4.3	4.3	ug/m3	1
07263	o-Xylene	95-47-6	< 1.0	1.0	ppb(v)	< 4.3	4.3	ug/m3	1
07264	Styrene	100-42-5	< 1.0	1.0	ppb(v)	< 4.3	4.3	ug/m3	1
07265	Bromoform	75-25-2	< 1.0	1.0	ppb(v)	< 10.	10.	ug/m3	1
07266	Cumene	98-82-8	< 1.0	1.0	ppb(v)	< 4.9	4.9	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb(v)	< 6.9	6.9	ug/m3	1
07268	1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb(v)	< 6.0	6.0	ug/m3	1
07269	Bromobenzene	108-86-1	< 1.0	1.0	ppb(v)	< 6.4	6.4	ug/m3	1
07270	4-Ethyltoluene	622-96-8	< 1.0	1.0	ppb(v)	< 4.9	4.9	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	< 1.0	1.0	ppb(v)	< 4.9	4.9	ug/m3	1
07272	Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb(v)	< 4.8	4.8	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	< 1.0	1.0	ppb(v)	< 4.9	4.9	ug/m3	1
07274	1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb(v)	< 6.0	6.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb(v)	< 6.0	6.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb(v)	< 6.0	6.0	ug/m3	1
07278	Hexachloroethane	67-72-1	< 1.0	1.0	ppb(v)	< 9.7	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366080 AQ

Group No. 1092117

Summa Can #508 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:46 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30

A2L Technologies

Reported: 06/13/2008 at 10:49

10220 Harney Road

Discard: 06/28/2008

Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	LOQ		Result	LOQ		
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was detected at an estimated concentration of 18 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 00:48	Jonathan K Nardelli	1



Lancaster Laboratories Sample No. 5366081 AQ

Group No. 1092117

Summa Can #024 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:47 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 20.	20.	ppb (v)	< 61.	61.	ug/m3	20
07201	Propane	115-07-1	32.	20.	ppb (v)	56.	34.	ug/m3	20
07202	Dichlorodifluoromethane	75-71-8	< 20.	20.	ppb (v)	< 99.	99.	ug/m3	20
07203	Chlorodifluoromethane	75-45-6	< 20.	20.	ppb (v)	< 71.	71.	ug/m3	20
07204	Freon 114	76-14-2	< 20.	20.	ppb (v)	< 140.	140.	ug/m3	20
07205	Chloromethane	74-87-3	< 20.	20.	ppb (v)	< 41.	41.	ug/m3	20
07206	Vinyl Chloride	75-01-4	< 20.	20.	ppb (v)	< 51.	51.	ug/m3	20
07207	1,3-Butadiene	106-99-0	< 40.	40.	ppb (v)	< 88.	88.	ug/m3	20
07208	Bromomethane	74-83-9	< 20.	20.	ppb (v)	< 78.	78.	ug/m3	20
07209	Chloroethane	75-00-3	< 20.	20.	ppb (v)	< 53.	53.	ug/m3	20
07210	Dichlorofluoromethane	75-43-4	< 20.	20.	ppb (v)	< 84.	84.	ug/m3	20
07212	Trichlorofluoromethane	75-69-4	< 20.	20.	ppb (v)	< 110.	110.	ug/m3	20
07213	Pentane	109-66-0	120.	20.	ppb (v)	350.	59.	ug/m3	20
07214	Acrolein	107-02-8	< 40.	40.	ppb (v)	< 92.	92.	ug/m3	20
07215	1,1-Dichloroethene	75-35-4	< 20.	20.	ppb (v)	< 79.	79.	ug/m3	20
07216	Freon 113	76-13-1	< 40.	40.	ppb (v)	< 310.	310.	ug/m3	20
07217	Acetone	67-64-1	160.	40.	ppb (v)	390.	95.	ug/m3	20
07218	Methyl Iodide	74-88-4	< 20.	20.	ppb (v)	< 120.	120.	ug/m3	20
07219	Carbon Disulfide	75-15-0	< 40.	40.	ppb (v)	< 120.	120.	ug/m3	20
07220	Acetonitrile	75-05-8	< 40.	40.	ppb (v)	< 67.	67.	ug/m3	20
07221	3-Chloropropene	107-05-1	< 20.	20.	ppb (v)	< 63.	63.	ug/m3	20
07222	Methylene Chloride	75-09-2	< 20.	20.	ppb (v)	< 69.	69.	ug/m3	20
07223	Acrylonitrile	107-13-1	< 40.	40.	ppb (v)	< 87.	87.	ug/m3	20
07224	trans-1,2-Dichloroethene	156-60-5	< 20.	20.	ppb (v)	< 79.	79.	ug/m3	20
07225	Methyl t-Butyl Ether	1634-04-4	< 20.	20.	ppb (v)	< 72.	72.	ug/m3	20
07226	Hexane	110-54-3	< 20.	20.	ppb (v)	< 70.	70.	ug/m3	20
07227	1,1-Dichloroethane	75-34-3	< 20.	20.	ppb (v)	< 81.	81.	ug/m3	20
07228	Vinyl Acetate	108-05-4	< 20.	20.	ppb (v)	< 70.	70.	ug/m3	20
07230	cis-1,2-Dichloroethene	156-59-2	< 20.	20.	ppb (v)	< 79.	79.	ug/m3	20
07231	2-Butanone	78-93-3	120.	40.	ppb (v)	350.	120.	ug/m3	20
07232	Ethyl Acetate	141-78-6	< 20.	20.	ppb (v)	< 72.	72.	ug/m3	20
07233	Methyl Acrylate	96-33-3	< 20.	20.	ppb (v)	< 70.	70.	ug/m3	20
07234	Chloroform	67-66-3	< 20.	20.	ppb (v)	< 98.	98.	ug/m3	20
07235	1,1,1-Trichloroethane	71-55-6	< 20.	20.	ppb (v)	< 110.	110.	ug/m3	20
07236	Carbon Tetrachloride	56-23-5	< 20.	20.	ppb (v)	< 130.	130.	ug/m3	20
07237	1,2-Dichloroethane	107-06-2	< 20.	20.	ppb (v)	< 81.	81.	ug/m3	20



Lancaster Laboratories Sample No. 5366081 AQ

Group No. 1092117

Summa Can #024 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:47 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	LOQ		Result	LOQ		
07238	Benzene	71-43-2	< 20.	20.	ppb(v)	< 64.	64.	ug/m3	20
07239	Isooctane	540-84-1	< 20.	20.	ppb(v)	< 93.	93.	ug/m3	20
07240	Heptane	142-82-5	< 20.	20.	ppb(v)	< 82.	82.	ug/m3	20
07241	Trichloroethene	79-01-6	< 20.	20.	ppb(v)	< 110.	110.	ug/m3	20
07242	Ethyl Acrylate	140-88-5	< 20.	20.	ppb(v)	< 82.	82.	ug/m3	20
07243	1,2-Dichloropropane	78-87-5	< 20.	20.	ppb(v)	< 92.	92.	ug/m3	20
07244	Methyl Methacrylate	80-62-6	< 20.	20.	ppb(v)	< 82.	82.	ug/m3	20
07245	Dibromomethane	74-95-3	< 20.	20.	ppb(v)	< 140.	140.	ug/m3	20
07246	1,4-Dioxane	123-91-1	< 20.	20.	ppb(v)	< 72.	72.	ug/m3	20
07247	Bromodichloromethane	75-27-4	< 20.	20.	ppb(v)	< 130.	130.	ug/m3	20
07248	cis-1,3-Dichloropropene	10061-01-5	< 20.	20.	ppb(v)	< 91.	91.	ug/m3	20
07249	4-Methyl-2-Pentanone	108-10-1	< 40.	40.	ppb(v)	< 160.	160.	ug/m3	20
07250	Toluene	108-88-3	< 20.	20.	ppb(v)	< 75.	75.	ug/m3	20
07251	Octane	111-65-9	< 20.	20.	ppb(v)	< 93.	93.	ug/m3	20
07252	trans-1,3-Dichloropropene	10061-02-6	< 20.	20.	ppb(v)	< 91.	91.	ug/m3	20
07253	Ethyl Methacrylate	97-63-2	< 20.	20.	ppb(v)	< 93.	93.	ug/m3	20
07254	1,1,2-Trichloroethane	79-00-5	< 20.	20.	ppb(v)	< 110.	110.	ug/m3	20
07255	Tetrachloroethene	127-18-4	< 20.	20.	ppb(v)	< 140.	140.	ug/m3	20
07256	2-Hexanone	591-78-6	< 40.	40.	ppb(v)	< 160.	160.	ug/m3	20
07257	Dibromochloromethane	124-48-1	< 20.	20.	ppb(v)	< 170.	170.	ug/m3	20
07258	1,2-Dibromoethane	106-93-4	< 20.	20.	ppb(v)	< 150.	150.	ug/m3	20
07259	Chlorobenzene	108-90-7	< 20.	20.	ppb(v)	< 92.	92.	ug/m3	20
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 20.	20.	ppb(v)	< 140.	140.	ug/m3	20
07261	Ethylbenzene	100-41-4	< 20.	20.	ppb(v)	< 87.	87.	ug/m3	20
07262	m/p-Xylene	1330-20-7	< 20.	20.	ppb(v)	< 87.	87.	ug/m3	20
07263	o-Xylene	95-47-6	< 20.	20.	ppb(v)	< 87.	87.	ug/m3	20
07264	Styrene	100-42-5	< 20.	20.	ppb(v)	< 85.	85.	ug/m3	20
07265	Bromoform	75-25-2	< 20.	20.	ppb(v)	< 210.	210.	ug/m3	20
07266	Cumene	98-82-8	< 20.	20.	ppb(v)	< 98.	98.	ug/m3	20
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 20.	20.	ppb(v)	< 140.	140.	ug/m3	20
07268	1,2,3-Trichloropropane	96-18-4	< 20.	20.	ppb(v)	< 120.	120.	ug/m3	20
07269	Bromobenzene	108-86-1	< 20.	20.	ppb(v)	< 130.	130.	ug/m3	20
07270	4-Ethyltoluene	622-96-8	< 20.	20.	ppb(v)	< 98.	98.	ug/m3	20
07271	1,3,5-Trimethylbenzene	108-67-8	< 20.	20.	ppb(v)	< 98.	98.	ug/m3	20
07272	Alpha Methyl Styrene	98-83-9	< 20.	20.	ppb(v)	< 97.	97.	ug/m3	20
07273	1,2,4-Trimethylbenzene	95-63-6	< 20.	20.	ppb(v)	< 98.	98.	ug/m3	20
07274	1,3-Dichlorobenzene	541-73-1	< 20.	20.	ppb(v)	< 120.	120.	ug/m3	20
07275	1,4-Dichlorobenzene	106-46-7	< 20.	20.	ppb(v)	< 120.	120.	ug/m3	20
07277	1,2-Dichlorobenzene	95-50-1	< 20.	20.	ppb(v)	< 120.	120.	ug/m3	20
07278	Hexachloroethane	67-72-1	< 20.	20.	ppb(v)	< 190.	190.	ug/m3	20





Lancaster Laboratories Sample No. 5366081 AQ

Group No. 1092117

Summa Can #024 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:47 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07279	1,2,4-Trichlorobenzene	120-82-1	< 40.	40.	ppb(v)	< 300.	300.	ug/m3	20
07280	Hexachlorobutadiene	87-68-3	< 40.	40.	ppb(v)	< 430.	430.	ug/m3	20

Isopropanol was detected at an estimated concentration of 17000 ppbv.

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 17:22	Paulella S Zamcho	20



Lancaster Laboratories Sample No. 5366082 AQ

Group No. 1092117

Summa Can #122 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:47 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final Result	LOQ	Units	As Received Final Result	LOQ	Units	DF
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07201	Propene	115-07-1	< 1.0	1.0	ppb (v)	< 1.7	1.7	ug/m3	1
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb (v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb (v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	< 2.0	2.0	ppb (v)	< 4.4	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb (v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	1.4	1.0	ppb (v)	3.8	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb (v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb (v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	1.1	1.0	ppb (v)	3.2	3.0	ug/m3	1
07214	Acrolein	107-02-8	< 2.0	2.0	ppb (v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb (v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	7.8	2.0	ppb (v)	19.	4.8	ug/m3	1
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb (v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	< 2.0	2.0	ppb (v)	< 6.2	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb (v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb (v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb (v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	2.2	2.0	ppb (v)	6.6	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb (v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1



Lancaster Laboratories Sample No. 5366082 AQ

Group No. 1092117

Summa Can #122 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:47 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT	No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
				Result	LOQ		Result	LOQ		
07238		Benzene	71-43-2	< 1.0	1.0	ppb (v)	< 3.2	3.2	ug/m3	1
07239		Isooctane	540-84-1	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07240		Heptane	142-82-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07241		Trichloroethene	79-01-6	< 1.0	1.0	ppb (v)	< 5.4	5.4	ug/m3	1
07242		Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07243		1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07244		Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07245		Dibromomethane	74-95-3	< 1.0	1.0	ppb (v)	< 7.1	7.1	ug/m3	1
07246		1,4-Dioxane	123-91-1	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07247		Bromodichloromethane	75-27-4	< 1.0	1.0	ppb (v)	< 6.7	6.7	ug/m3	1
07248		cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07249		4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07250		Toluene	108-88-3	< 1.0	1.0	ppb (v)	< 3.8	3.8	ug/m3	1
07251		Octane	111-65-9	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07252		trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07253		Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07254		1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07255		Tetrachloroethene	127-18-4	< 1.0	1.0	ppb (v)	< 6.8	6.8	ug/m3	1
07256		2-Hexanone	591-78-6	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07257		Dibromochloromethane	124-48-1	< 1.0	1.0	ppb (v)	< 8.5	8.5	ug/m3	1
07258		1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb (v)	< 7.7	7.7	ug/m3	1
07259		Chlorobenzene	108-90-7	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07260		1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07261		Ethylbenzene	100-41-4	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07262		m/p-Xylene	1330-20-7	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07263		o-Xylene	95-47-6	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07264		Styrene	100-42-5	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07265		Bromoform	75-25-2	< 1.0	1.0	ppb (v)	< 10.	10.	ug/m3	1
07266		Cumene	98-82-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07267		1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07268		1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07269		Bromobenzene	108-86-1	< 1.0	1.0	ppb (v)	< 6.4	6.4	ug/m3	1
07270		4-Ethyltoluene	622-96-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07271		1,3,5-Trimethylbenzene	108-67-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07272		Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb (v)	< 4.8	4.8	ug/m3	1
07273		1,2,4-Trimethylbenzene	95-63-6	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07274		1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07275		1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07277		1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07278		Hexachloroethane	67-72-1	< 1.0	1.0	ppb (v)	< 9.7	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366082 AQ

Group No. 1092117

Summa Can #122 Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 17:47 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was detected at an estimated concentration of 4 ppbv.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 18:07	Fanella S Zamcho	1



Lancaster Laboratories Sample No. 5366083 AQ

Group No. 1092117

Summa Can #166-Trip Blank Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT No.	Analysis Name	CAS Number	As Received Final	LOQ	Units	As Received Final	LOQ	Units	DF
			Result			Result			
05298	TO 15 VOA Ext. List								
02076	tert-Butyl Alcohol	75-65-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07201	Propene	115-07-1	< 1.0	1.0	ppb (v)	< 1.7	1.7	ug/m3	1
07202	Dichlorodifluoromethane	75-71-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07203	Chlorodifluoromethane	75-45-6	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07204	Freon 114	76-14-2	< 1.0	1.0	ppb (v)	< 7.0	7.0	ug/m3	1
07205	Chloromethane	74-87-3	< 1.0	1.0	ppb (v)	< 2.1	2.1	ug/m3	1
07206	Vinyl Chloride	75-01-4	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07207	1,3-Butadiene	106-99-0	< 2.0	2.0	ppb (v)	< 4.4	4.4	ug/m3	1
07208	Bromomethane	74-83-9	< 1.0	1.0	ppb (v)	< 3.9	3.9	ug/m3	1
07209	Chloroethane	75-00-3	< 1.0	1.0	ppb (v)	< 2.6	2.6	ug/m3	1
07210	Dichlorofluoromethane	75-43-4	< 1.0	1.0	ppb (v)	< 4.2	4.2	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	< 1.0	1.0	ppb (v)	< 5.6	5.6	ug/m3	1
07213	Pentane	109-66-0	< 1.0	1.0	ppb (v)	< 3.0	3.0	ug/m3	1
07214	Acrolein	107-02-8	< 2.0	2.0	ppb (v)	< 4.6	4.6	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07216	Freon 113	76-13-1	< 2.0	2.0	ppb (v)	< 15.	15.	ug/m3	1
07217	Acetone	67-64-1	< 2.0	2.0	ppb (v)	< 4.8	4.8	ug/m3	1
07218	Methyl Iodide	74-88-4	< 1.0	1.0	ppb (v)	< 5.8	5.8	ug/m3	1
07219	Carbon Disulfide	75-15-0	< 2.0	2.0	ppb (v)	< 6.2	6.2	ug/m3	1
07220	Acetonitrile	75-05-8	< 2.0	2.0	ppb (v)	< 3.4	3.4	ug/m3	1
07221	3-Chloropropene	107-05-1	< 1.0	1.0	ppb (v)	< 3.1	3.1	ug/m3	1
07222	Methylene Chloride	75-09-2	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07223	Acrylonitrile	107-13-1	< 2.0	2.0	ppb (v)	< 4.3	4.3	ug/m3	1
07224	trans-1,2-Dichloroethene	156-60-5	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07225	Methyl t-Butyl Ether	1634-04-4	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07226	Hexane	110-54-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07228	Vinyl Acetate	108-05-4	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1
07231	2-Butanone	78-93-3	< 2.0	2.0	ppb (v)	< 5.9	5.9	ug/m3	1
07232	Ethyl Acetate	141-78-6	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07233	Methyl Acrylate	96-33-3	< 1.0	1.0	ppb (v)	< 3.5	3.5	ug/m3	1
07234	Chloroform	67-66-3	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	< 1.0	1.0	ppb (v)	< 6.3	6.3	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ppb (v)	< 4.0	4.0	ug/m3	1



Lancaster Laboratories Sample No. 5366083 AQ

Group No. 1092117

Summa Can #166-Trip Blank Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30  
Reported: 06/13/2008 at 10:49  
Discard: 06/28/2008A2L Technologies  
10220 Harney Road  
Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07238	Benzene	71-43-2	< 1.0	1.0	ppb (v)	< 3.2	3.2	ug/m3	1
07239	Isooctane	540-84-1	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07240	Heptane	142-82-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07241	Trichloroethene	79-01-6	< 1.0	1.0	ppb (v)	< 5.4	5.4	ug/m3	1
07242	Ethyl Acrylate	140-88-5	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07244	Methyl Methacrylate	80-62-6	< 1.0	1.0	ppb (v)	< 4.1	4.1	ug/m3	1
07245	Dibromomethane	74-95-3	< 1.0	1.0	ppb (v)	< 7.1	7.1	ug/m3	1
07246	1,4-Dioxane	123-91-1	< 1.0	1.0	ppb (v)	< 3.6	3.6	ug/m3	1
07247	Bromodichloromethane	75-27-4	< 1.0	1.0	ppb (v)	< 6.7	6.7	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07249	4-Methyl-2-Pentanone	108-10-1	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07250	Toluene	108-88-3	< 1.0	1.0	ppb (v)	< 3.8	3.8	ug/m3	1
07251	Octane	111-65-9	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	< 1.0	1.0	ppb (v)	< 4.5	4.5	ug/m3	1
07253	Ethyl Methacrylate	97-63-2	< 1.0	1.0	ppb (v)	< 4.7	4.7	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	< 1.0	1.0	ppb (v)	< 5.5	5.5	ug/m3	1
07255	Tetrachloroethene	127-18-4	< 1.0	1.0	ppb (v)	< 6.8	6.8	ug/m3	1
07256	2-Hexanone	591-78-6	< 2.0	2.0	ppb (v)	< 8.2	8.2	ug/m3	1
07257	Dibromochloromethane	124-48-1	< 1.0	1.0	ppb (v)	< 8.5	8.5	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ppb (v)	< 7.7	7.7	ug/m3	1
07259	Chlorobenzene	108-90-7	< 1.0	1.0	ppb (v)	< 4.6	4.6	ug/m3	1
07260	1,1,1,2-Tetrachloroethane	630-20-6	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07261	Ethylbenzene	100-41-4	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07262	m/p-Xylene	1330-20-7	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07263	o-Xylene	95-47-6	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07264	Styrene	100-42-5	< 1.0	1.0	ppb (v)	< 4.3	4.3	ug/m3	1
07265	Bromoform	75-25-2	< 1.0	1.0	ppb (v)	< 10.	10.	ug/m3	1
07266	Cumene	98-82-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	< 1.0	1.0	ppb (v)	< 6.9	6.9	ug/m3	1
07268	1,2,3-Trichloropropane	96-18-4	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07269	Bromobenzene	108-86-1	< 1.0	1.0	ppb (v)	< 6.4	6.4	ug/m3	1
07270	4-Ethyltoluene	622-96-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07272	Alpha Methyl Styrene	98-83-9	< 1.0	1.0	ppb (v)	< 4.8	4.8	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	< 1.0	1.0	ppb (v)	< 4.9	4.9	ug/m3	1
07274	1,3-Dichlorobenzene	541-73-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	< 1.0	1.0	ppb (v)	< 6.0	6.0	ug/m3	1
07278	Hexachloroethane	67-72-1	< 1.0	1.0	ppb (v)	< 9.7	9.7	ug/m3	1



Lancaster Laboratories Sample No. 5366083 AQ

Group No. 1092117

Summa Can #166-Trip Blank Grab Air Sample  
Ciabattoni 050409

Collected: 05/15/2008 by JC

Account Number: 01907

Submitted: 05/20/2008 09:30

A2L Technologies

Reported: 06/13/2008 at 10:49

10220 Harney Road

Discard: 06/28/2008

Thonotosassa FL 33592

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	LOQ	Units	Result	LOQ	Units	DF
07279	1,2,4-Trichlorobenzene	120-82-1	< 2.0	2.0	ppb(v)	< 15.	15.	ug/m3	1
07280	Hexachlorobutadiene	87-68-3	< 2.0	2.0	ppb(v)	< 21.	21.	ug/m3	1

Isopropanol was not detected in this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

LOQ = Limit of Quantitation

## Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	05/30/2008 23:05	Fanella S Zamcho	1



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/13/08 at 10:49 AM

Group Number: 1092117

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A0814930AB	Sample number(s): 5366075-5366080							
tert-Butyl Alcohol	< 1.0	1.0	ppb (v)					
Propene	< 1.0	1.0	ppb (v)					
Dichlorodifluoromethane	< 1.0	1.0	ppb (v)	103	105	54-122	2	20
Chlorodifluoromethane	< 1.0	1.0	ppb (v)					
Freon 114	< 1.0	1.0	ppb (v)	101	105	58-125	4	20
Chloromethane	< 1.0	1.0	ppb (v)	102	107	50-127	5	20
Vinyl Chloride	< 1.0	1.0	ppb (v)	99	103	48-133	4	20
1,3-Butadiene	< 2.0	2.0	ppb (v)					
Bromomethane	< 1.0	1.0	ppb (v)	95	100	41-128	6	20
Chloroethane	< 1.0	1.0	ppb (v)	94	96	56-126	3	20
Dichlorofluoromethane	< 1.0	1.0	ppb (v)					
Trichlorofluoromethane	< 1.0	1.0	ppb (v)	98	102	60-126	4	20
Pentane	< 1.0	1.0	ppb (v)					
Acrolein	< 2.0	2.0	ppb (v)					
1,1-Dichloroethene	< 1.0	1.0	ppb (v)	105	112	56-127	6	20
Freon 113	< 2.0	2.0	ppb (v)	100	106	61-135	6	20
Acetone	< 2.0	2.0	ppb (v)					
Methyl Iodide	< 1.0	1.0	ppb (v)					
Carbon Disulfide	< 2.0	2.0	ppb (v)					
Acetonitrile	< 2.0	2.0	ppb (v)					
3-Chloropropene	< 1.0	1.0	ppb (v)					
Methylene Chloride	< 1.0	1.0	ppb (v)	95	102	53-133	8	20
Acrylonitrile	< 2.0	2.0	ppb (v)					
trans-1,2-Dichloroethene	< 1.0	1.0	ppb (v)					
Methyl t-Butyl Ether	< 1.0	1.0	ppb (v)					
Hexane	< 1.0	1.0	ppb (v)					
1,1-Dichloroethane	< 1.0	1.0	ppb (v)	95	102	56-128	8	20
Vinyl Acetate	< 1.0	1.0	ppb (v)					
cis-1,2-Dichloroethene	< 1.0	1.0	ppb (v)	99	108	52-125	9	20
2-Butanone	< 2.0	2.0	ppb (v)					
Ethyl Acetate	< 1.0	1.0	ppb (v)					
Methyl Acrylate	< 1.0	1.0	ppb (v)					
Chloroform	< 1.0	1.0	ppb (v)	101	107	62-133	6	20
1,1,1-Trichloroethane	< 1.0	1.0	ppb (v)	104	110	57-136	5	20
Carbon Tetrachloride	< 1.0	1.0	ppb (v)	74	78	53-123	6	20
1,2-Dichloroethane	< 1.0	1.0	ppb (v)	110	117	60-146	7	20
Benzene	< 1.0	1.0	ppb (v)	98	104	54-135	6	20
Isooctane	< 1.0	1.0	ppb (v)					
Heptane	< 1.0	1.0	ppb (v)					
Trichloroethene	< 1.0	1.0	ppb (v)	123	125	57-138	2	20
Ethyl Acrylate	< 1.0	1.0	ppb (v)					
1,2-Dichloropropane	< 1.0	1.0	ppb (v)	103	111	55-143	7	20
Methyl Methacrylate	< 1.0	1.0	ppb (v)					
Dibromomethane	< 1.0	1.0	ppb (v)					
1,4-Dioxane	< 1.0	1.0	ppb (v)					

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.





## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/13/08 at 10:49 AM

Group Number: 1092117

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bromodichloromethane	< 1.0	1.0	ppb (v)					
cis-1,3-Dichloropropene	< 1.0	1.0	ppb (v)	85	93	48-132	8	20
4-Methyl-2-Pentanone	< 2.0	2.0	ppb (v)					
Toluene	< 1.0	1.0	ppb (v)	107	113	58-147	6	20
Octane	< 1.0	1.0	ppb (v)					
trans-1,3-Dichloropropene	< 1.0	1.0	ppb (v)	76	80	53-147	6	20
Ethyl Methacrylate	< 1.0	1.0	ppb (v)					
1,1,2-Trichloroethane	< 1.0	1.0	ppb (v)	105	113	54-132	7	20
Tetrachloroethene	< 1.0	1.0	ppb (v)	103	111	51-133	8	20
2-Hexanone	< 2.0	2.0	ppb (v)					
Dibromochloromethane	< 1.0	1.0	ppb (v)					
1,2-Dibromoethane	< 1.0	1.0	ppb (v)	105	116	53-158	9	20
Chlorobenzene	< 1.0	1.0	ppb (v)	107	114	60-137	7	20
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ppb (v)					
Ethylbenzene	< 1.0	1.0	ppb (v)	107	114	63-140	7	20
m/p-Xylene	< 1.0	1.0	ppb (v)	102	107	63-136	4	20
o-Xylene	< 1.0	1.0	ppb (v)	110	116	62-160	6	20
Styrene	< 1.0	1.0	ppb (v)	89	92	58-169	4	20
Bromoform	< 1.0	1.0	ppb (v)					
Cumene	< 1.0	1.0	ppb (v)					
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ppb (v)	114	123	43-171	8	20
1,2,3-Trichloropropane	< 1.0	1.0	ppb (v)					
Bromobenzene	< 1.0	1.0	ppb (v)					
4-Ethyltoluene	< 1.0	1.0	ppb (v)					
1,3,5-Trimethylbenzene	< 1.0	1.0	ppb (v)	108	113	49-157	5	20
Alpha Methyl Styrene	< 1.0	1.0	ppb (v)					
1,2,4-Trimethylbenzene	< 1.0	1.0	ppb (v)	102	107	44-164	5	20
1,3-Dichlorobenzene	< 1.0	1.0	ppb (v)	105	117	46-170	11	20
1,4-Dichlorobenzene	< 1.0	1.0	ppb (v)	96	106	39-169	9	20
1,2-Dichlorobenzene	< 1.0	1.0	ppb (v)	105	116	46-171	9	20
Hexachloroethane	< 1.0	1.0	ppb (v)					
1,2,4-Trichlorobenzene	< 2.0	2.0	ppb (v)	114	143	32-200	23*	20
Hexachlorobutadiene	< 2.0	2.0	ppb (v)	116	141	32-227	19	20
Batch number: A0814930AC Sample number(s): 5366075, 5366077-5366078, 5366081-5366082								
tert-Butyl Alcohol	< 1.0	1.0	ppb (v)					
Propene	< 1.0	1.0	ppb (v)					
Dichlorodifluoromethane	< 1.0	1.0	ppb (v)	103	105	54-122	2	20
Chlorodifluoromethane	< 1.0	1.0	ppb (v)					
Freon 114	< 1.0	1.0	ppb (v)	101	105	58-125	4	20
Chloromethane	< 1.0	1.0	ppb (v)	102	107	50-127	5	20
Vinyl Chloride	< 1.0	1.0	ppb (v)	99	103	48-133	4	20
1,3-Butadiene	< 2.0	2.0	ppb (v)					
Bromomethane	< 1.0	1.0	ppb (v)	95	100	41-128	6	20
Chloroethane	< 1.0	1.0	ppb (v)	94	96	56-126	3	20
Dichlorofluoromethane	< 1.0	1.0	ppb (v)					
Trichlorofluoromethane	< 1.0	1.0	ppb (v)	98	102	60-126	4	20
Pentane	< 1.0	1.0	ppb (v)					
Acrolein	< 2.0	2.0	ppb (v)					
1,1-Dichloroethene	< 1.0	1.0	ppb (v)	105	112	56-127	6	20
Freon 113	< 2.0	2.0	ppb (v)	100	106	61-135	6	20
Acetone	< 2.0	2.0	ppb (v)					
Methyl Iodide	< 1.0	1.0	ppb (v)					
Carbon Disulfide	< 2.0	2.0	ppb (v)					

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/13/08 at 10:49 AM

Group Number: 1092117

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acetonitrile	< 2.0	2.0	ppb (v)					
3-Chloropropene	< 1.0	1.0	ppb (v)					
Methylene Chloride	< 1.0	1.0	ppb (v)	95	102	53-133	8	20
Acrylonitrile	< 2.0	2.0	ppb (v)					
trans-1,2-Dichloroethene	< 1.0	1.0	ppb (v)					
Methyl t-Butyl Ether	< 1.0	1.0	ppb (v)					
Hexane	< 1.0	1.0	ppb (v)					
1,1-Dichloroethane	< 1.0	1.0	ppb (v)	95	102	56-128	8	20
Vinyl Acetate	< 1.0	1.0	ppb (v)					
cis-1,2-Dichloroethene	< 1.0	1.0	ppb (v)	99	108	52-125	9	20
2-Butanone	< 2.0	2.0	ppb (v)					
Ethyl Acetate	< 1.0	1.0	ppb (v)					
Methyl Acrylate	< 1.0	1.0	ppb (v)					
Chloroform	< 1.0	1.0	ppb (v)	101	107	62-133	6	20
1,1,1-Trichloroethane	< 1.0	1.0	ppb (v)	104	110	57-136	5	20
Carbon Tetrachloride	< 1.0	1.0	ppb (v)	74	78	53-123	6	20
1,2-Dichloroethane	< 1.0	1.0	ppb (v)	110	117	60-146	7	20
Benzene	< 1.0	1.0	ppb (v)	98	104	54-135	6	20
Isooctane	< 1.0	1.0	ppb (v)					
Heptane	< 1.0	1.0	ppb (v)					
Trichloroethene	< 1.0	1.0	ppb (v)	123	125	57-138	2	20
Ethyl Acrylate	< 1.0	1.0	ppb (v)					
1,2-Dichloropropane	< 1.0	1.0	ppb (v)	103	111	55-143	7	20
Methyl Methacrylate	< 1.0	1.0	ppb (v)					
Dibromomethane	< 1.0	1.0	ppb (v)					
1,4-Dioxane	< 1.0	1.0	ppb (v)					
Bromodichloromethane	< 1.0	1.0	ppb (v)					
cis-1,3-Dichloropropene	< 1.0	1.0	ppb (v)	85	93	48-132	8	20
4-Methyl-2-Pentanone	< 2.0	2.0	ppb (v)					
Toluene	< 1.0	1.0	ppb (v)	107	113	58-147	6	20
Octane	< 1.0	1.0	ppb (v)					
trans-1,3-Dichloropropene	< 1.0	1.0	ppb (v)	76	80	53-147	6	20
Ethyl Methacrylate	< 1.0	1.0	ppb (v)					
1,1,2-Trichloroethane	< 1.0	1.0	ppb (v)	105	113	54-132	7	20
Tetrachloroethene	< 1.0	1.0	ppb (v)	103	111	51-133	8	20
2-Hexanone	< 2.0	2.0	ppb (v)					
Dibromochloromethane	< 1.0	1.0	ppb (v)					
1,2-Dibromoethane	< 1.0	1.0	ppb (v)	105	116	53-158	9	20
Chlorobenzene	< 1.0	1.0	ppb (v)	107	114	60-137	7	20
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ppb (v)					
Ethylbenzene	< 1.0	1.0	ppb (v)	107	114	63-140	7	20
m/p-Xylene	< 1.0	1.0	ppb (v)	102	107	63-136	4	20
o-Xylene	< 1.0	1.0	ppb (v)	110	116	62-160	6	20
Styrene	< 1.0	1.0	ppb (v)	89	92	58-169	4	20
Bromoform	< 1.0	1.0	ppb (v)					
Cumene	< 1.0	1.0	ppb (v)					
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ppb (v)	114	123	43-171	8	20
1,2,3-Trichloropropane	< 1.0	1.0	ppb (v)					
Bromobenzene	< 1.0	1.0	ppb (v)					
4-Ethyltoluene	< 1.0	1.0	ppb (v)					
1,3,5-Trimethylbenzene	< 1.0	1.0	ppb (v)	108	113	49-157	5	20
Alpha Methyl Styrene	< 1.0	1.0	ppb (v)					
1,2,4-Trimethylbenzene	< 1.0	1.0	ppb (v)	102	107	44-164	5	20
1,3-Dichlorobenzene	< 1.0	1.0	ppb (v)	105	117	46-170	11	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/13/08 at 10:49 AM

Group Number: 1092117

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	< 1.0	1.0	ppb (v)	96	106	39-169	9	20
1,2-Dichlorobenzene	< 1.0	1.0	ppb (v)	105	116	46-171	9	20
Hexachloroethane	< 1.0	1.0	ppb (v)					
1,2,4-Trichlorobenzene	< 2.0	2.0	ppb (v)	114	143	32-200	23*	20
Hexachlorobutadiene	< 2.0	2.0	ppb (v)	116	141	32-227	19	20

Batch number: A0815130AA	Sample number(s): 5366083							
tert-Butyl Alcohol	< 1.0	1.0	ppb (v)					
Propene	< 1.0	1.0	ppb (v)					
Dichlorodifluoromethane	< 1.0	1.0	ppb (v)	104	102	54-122	2	20
Chlorodifluoromethane	< 1.0	1.0	ppb (v)					
Freon 114	< 1.0	1.0	ppb (v)	105	105	58-125	0	20
Chloromethane	< 1.0	1.0	ppb (v)	108	106	50-127	2	20
Vinyl Chloride	< 1.0	1.0	ppb (v)	104	105	48-133	1	20
1,3-Butadiene	< 2.0	2.0	ppb (v)					
Bromomethane	< 1.0	1.0	ppb (v)	102	98	41-128	3	20
Chloroethane	< 1.0	1.0	ppb (v)	98	101	56-126	3	20
Dichlorofluoromethane	< 1.0	1.0	ppb (v)					
Trichlorofluoromethane	< 1.0	1.0	ppb (v)	102	101	60-126	1	20
Pentane	< 1.0	1.0	ppb (v)					
Acrolein	< 2.0	2.0	ppb (v)					
1,1-Dichloroethene	< 1.0	1.0	ppb (v)	109	110	56-127	1	20
Freon 113	< 2.0	2.0	ppb (v)	102	101	61-135	0	20
Acetone	< 2.0	2.0	ppb (v)					
Methyl Iodide	< 1.0	1.0	ppb (v)					
Carbon Disulfide	< 2.0	2.0	ppb (v)					
Acetonitrile	< 2.0	2.0	ppb (v)					
3-Chloropropene	< 1.0	1.0	ppb (v)					
Methylene Chloride	< 1.0	1.0	ppb (v)	101	100	53-133	1	20
Acrylonitrile	< 2.0	2.0	ppb (v)					
trans-1,2-Dichloroethene	< 1.0	1.0	ppb (v)					
Methyl t-Butyl Ether	< 1.0	1.0	ppb (v)					
Hexane	< 1.0	1.0	ppb (v)					
1,1-Dichloroethane	< 1.0	1.0	ppb (v)	96	98	56-128	2	20
Vinyl Acetate	< 1.0	1.0	ppb (v)					
cis-1,2-Dichloroethene	< 1.0	1.0	ppb (v)	103	103	52-125	0	20
2-Butanone	< 2.0	2.0	ppb (v)					
Ethyl Acetate	< 1.0	1.0	ppb (v)					
Methyl Acrylate	< 1.0	1.0	ppb (v)					
Chloroform	< 1.0	1.0	ppb (v)	103	103	62-133	1	20
1,1,1-Trichloroethane	< 1.0	1.0	ppb (v)	105	103	57-136	2	20
Carbon Tetrachloride	< 1.0	1.0	ppb (v)	72	73	53-123	2	20
1,2-Dichloroethane	< 1.0	1.0	ppb (v)	108	110	60-146	2	20
Benzene	< 1.0	1.0	ppb (v)	98	102	54-135	5	20
Isooctane	< 1.0	1.0	ppb (v)					
Heptane	< 1.0	1.0	ppb (v)					
Trichloroethene	< 1.0	1.0	ppb (v)	120	126	57-138	4	20
Ethyl Acrylate	< 1.0	1.0	ppb (v)					
1,2-Dichloropropane	< 1.0	1.0	ppb (v)	107	107	55-143	1	20
Methyl Methacrylate	< 1.0	1.0	ppb (v)					
Dibromomethane	< 1.0	1.0	ppb (v)					
1,4-Dioxane	< 1.0	1.0	ppb (v)					
Bromodichloromethane	< 1.0	1.0	ppb (v)					
cis-1,3-Dichloropropene	< 1.0	1.0	ppb (v)	86	89	48-132	3	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Quality Control Summary

Client Name: A2L Technologies  
Reported: 06/13/08 at 10:49 AM

Group Number: 1092117

## Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	< 2.0	2.0	ppb (v)					
Toluene	< 1.0	1.0	ppb (v)	107	108	58-147	1	20
Octane	< 1.0	1.0	ppb (v)					
trans-1,3-Dichloropropene	< 1.0	1.0	ppb (v)	70	76	53-147	8	20
Ethyl Methacrylate	< 1.0	1.0	ppb (v)					
1,1,2-Trichloroethane	< 1.0	1.0	ppb (v)	105	107	54-132	2	20
Tetrachloroethene	< 1.0	1.0	ppb (v)	102	105	51-133	3	20
2-Hexanone	< 2.0	2.0	ppb (v)					
Dibromochloromethane	< 1.0	1.0	ppb (v)					
1,2-Dibromoethane	< 1.0	1.0	ppb (v)	104	110	53-158	6	20
Chlorobenzene	< 1.0	1.0	ppb (v)	107	110	60-137	2	20
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ppb (v)					
Ethylbenzene	< 1.0	1.0	ppb (v)	108	112	63-140	4	20
m/p-Xylene	< 1.0	1.0	ppb (v)	103	107	63-136	4	20
o-Xylene	< 1.0	1.0	ppb (v)	109	114	62-160	4	20
Styrene	< 1.0	1.0	ppb (v)	88	93	58-169	5	20
Bromoform	< 1.0	1.0	ppb (v)					
Cumene	< 1.0	1.0	ppb (v)					
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ppb (v)	114	121	43-171	5	20
1,2,3-Trichloropropane	< 1.0	1.0	ppb (v)					
Bromobenzene	< 1.0	1.0	ppb (v)					
4-Ethyltoluene	< 1.0	1.0	ppb (v)					
1,3,5-Trimethylbenzene	< 1.0	1.0	ppb (v)	106	112	49-157	5	20
Alpha Methyl Styrene	< 1.0	1.0	ppb (v)					
1,2,4-Trimethylbenzene	< 1.0	1.0	ppb (v)	103	106	44-164	3	20
1,3-Dichlorobenzene	< 1.0	1.0	ppb (v)	107	114	46-170	6	20
1,4-Dichlorobenzene	< 1.0	1.0	ppb (v)	100	109	39-169	8	20
1,2-Dichlorobenzene	< 1.0	1.0	ppb (v)	108	118	46-171	9	20
Hexachloroethane	< 1.0	1.0	ppb (v)					
1,2,4-Trichlorobenzene	< 2.0	2.0	ppb (v)	107	134	32-200	22*	20
Hexachlorobutadiene	< 2.0	2.0	ppb (v)	99	116	32-227	16	20

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



## Analytical Report

Work Order: RSJ0643

Project Description  
Ciabattoni Brownfield Site

For:

Joseph Clemis  
**A2L Technologies**  
10220 Harney Road, NE  
Thonotosassa, FL 33592

A handwritten signature in black ink, reading "Tony Bogolin". The signature is fluid and cursive, with a horizontal line drawn underneath it.

Tony Bogolin  
Project Manager  
tony.bogolin@testamericainc.com  
Tuesday, November 3, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

## TestAmerica Buffalo Current Certifications

As of 1/27/2009

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	CWA, RCRA, SOIL	88-0686
<b>California*</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida*</b>	NELAP CWA, RCRA	E87672
<b>Georgia*</b>	SDWA, NELAP CWA, RCRA	956
<b>Illinois*</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas*</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana*</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY0044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire*</b>	NELAP SDWA, CWA	233701
<b>New Jersey*</b>	NELAP, SDWA, CWA, RCRA,	NY455
<b>New York*</b>	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania*</b>	NELAP CWA, RCRA	68-00281
<b>Tennessee</b>	SDWA	02970
<b>Texas*</b>	NELAP CWA, RCRA	T104704412-08-TX
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>USDOE</b>	Department of Energy	DOECAP-STB
<b>Virginia</b>	SDWA	278
<b>Washington*</b>	NELAP CWA, RCRA	C1677
<b>Wisconsin</b>	CWA, RCRA	998310390
<b>West Virginia</b>	CWA, RCRA	252

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

## Sample Data Summary Package

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
S1	RSJ0643-01	Solid	10/06/09 10:00	10/09/09 09:20	
S2	RSJ0643-02	Solid	10/06/09 10:15	10/09/09 09:20	
S3	RSJ0643-03	Solid	10/06/09 11:00	10/09/09 09:20	
S4	RSJ0643-04	Solid	10/06/09 11:15	10/09/09 09:20	
S5	RSJ0643-05	Solid	10/06/09 12:15	10/09/09 09:20	
S6	RSJ0643-06	Solid	10/06/09 12:30	10/09/09 09:20	
S7	RSJ0643-07	Solid	10/06/09 11:15	10/09/09 09:20	
S8	RSJ0643-08	Solid	10/06/09 15:45	10/09/09 09:20	
S9	RSJ0643-09	Solid	10/06/09	10/09/09 09:20	
S10	RSJ0643-10	Solid	10/06/09	10/09/09 09:20	
W1	RSJ0643-11	Ground Water	10/07/09 11:40	10/09/09 09:20	
W2	RSJ0643-12	Ground Water	10/07/09 14:19	10/09/09 09:20	
W3	RSJ0643-13	Ground Water	10/07/09 17:21	10/09/09 09:20	
W4	RSJ0643-14	Ground Water	10/08/09 10:35	10/09/09 09:20	
W5	RSJ0643-15	Ground Water	10/07/09 15:41	10/09/09 09:20	
W6	RSJ0643-16	Ground Water	10/07/09 18:30	10/09/09 09:20	
W7	RSJ0643-17	Ground Water	10/08/09 08:45	10/09/09 09:20	
W8	RSJ0643-18	Ground Water	10/07/09 18:30	10/09/09 09:20	
TRIP BLANK	RSJ0643-19	Water	10/08/09	10/09/09 09:20	



A2L Technologies  
10220 Harney Road, NE  
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Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

N-Nitrosodiphenylamine recovery was elevated in Laboratory Control Samples (LCS) 9J12044-BS1 and 9J12044-BS2 indicating a possible high bias. This compound was not detected in the associated samples.

Atrazine recovery was below QC limits for Laboratory Control Sample (LCS) 9J13065-BS1 and it's duplicate 9J13065-BSD1. The RPD for Benzaldehyde was elevated for the LCS/LCSD pair, though the individual recoveries were within QC limits for this analyte. Individual analyte exceedances for multicomponent analyses are allowed without qualification of the data per NELAC standard.

For the Pesticide dual column analysis, a Form 1 will be provided for both columns for the Quality Control samples (Blanks, Laboratory Control Samples, Matrix Spikes and Duplicates). The primary column for this analysis is the B column.

For the PCB dual column analysis, a Form 1 will be provided for both columns for the Quality Control samples (Blanks, Laboratory Control Samples, Matrix Spikes and Duplicates). The primary column for this analysis is the A column.

Mercury Continuing Calibration Blank RJ91938-CCB4 indicates that the found result is at or above the reporting limit; however, the reporting limit is 0.20 mg/l. The reporting limit listed on the form is taking into account the volumes used for the preparation of the samples. The initial volume is 30 ml and final volume is 50 ml resulting in the reporting limit of 0.12 mg/l presented on the form.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Tony Bogolin  
Project Manager

Tuesday, November 3, 2009

There are pertinent documents appended to this report, 4 pages, are included and are an integral part of this report. Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## DATA QUALIFIERS AND DEFINITIONS

<b>B</b>	Analyte was detected in the associated Method Blank.
<b>B1</b>	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
<b>C</b>	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
<b>C4</b>	Calibration Verification recovery was below the method control limit for this analyte.
<b>D08</b>	Dilution required due to high concentration of target analyte(s)
<b>D10</b>	Dilution required due to sample color
<b>J</b>	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
<b>L</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
<b>L1</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
<b>L5</b>	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
<b>QFL</b>	Florisil clean-up (EPA 3620) performed on extract.
<b>QSU</b>	Sulfur (EPA 3660) clean-up performed on extract.
<b>R2</b>	The RPD exceeded the acceptance limit.
<b>T11</b>	This compound is a calibrated analyte and therefore is qualitatively and quantitatively reported compared to a known standard that is in control.
<b>T7</b>	Tentatively identified compound. Concentration is estimated based on the closest internal standard.
<b>NR</b>	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

**TIC** Analyzed by MS T.I.C. (Tentatively Identified Compound)

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-01 (S1 - Solid)						Sampled: 10/06/09 10:00    Recvd: 10/09/09 09:20				
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>										
Acetone	12	J	30	1.3	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Methylene Chloride	1.8	J	5.9	1.2	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
<b><u>Semivolatile Organics by GC/MS</u></b>										
Benzo[a]anthracene	21	J	200	3.4	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzo[a]pyrene	18	J	200	4.8	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzo[b]fluoranthene	21	J	200	3.8	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzo[g,h,i]perylene	14	J	200	2.4	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzo[k]fluoranthene	12	J	200	2.2	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Chrysene	21	J	200	2.0	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Fluoranthene	35	J	200	2.9	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	12	J	200	5.5	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Phenanthrene	16	J	200	4.1	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Pyrene	36	J	200	1.3	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
<b><u>Organochlorine Pesticides by EPA Method 8081A</u></b>										
4,4'-DDD [2C]	0.97	QFL,J	1.9	0.37	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
4,4'-DDE [2C]	1.0	QFL,J	1.9	0.55	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
4,4'-DDT [2C]	1.7	QFL,J	1.9	0.44	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
alpha-BHC [2C]	1.6	QFL,J	1.9	0.35	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
delta-BHC [2C]	0.91	QFL,J	1.9	0.25	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Dieldrin [2C]	0.61	QFL,J	1.9	0.46	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endrin ketone [2C]	0.70	QFL,J	1.9	0.47	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
gamma-Chlordane [2C]	1.3	QFL,J	1.9	0.26	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
<b><u>Total Metals by SW 846 Series Methods</u></b>										
Aluminum	10100		12.2	1.5	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Arsenic	4.3	B	2.4	0.3	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Barium	61.8		0.611	0.032	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Beryllium	0.455	B	0.245	0.012	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Cadmium	0.152	J	0.245	0.049	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Calcium	3030		61.1	12.2	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Chromium	10.9		0.611	0.110	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Cobalt	8.05		0.611	0.061	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Copper	20.2		1.2	0.1	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Iron	19300		12.2	3.7	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Lead	7.6		1.2	0.1	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Magnesium	4050	B	24.5	1.1	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Manganese	433	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Nickel	14.3		6.11	0.098	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Potassium	1460		36.7	5.9	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Sodium	80.0	J	171	37.9	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Vanadium	19.9		0.611	0.049	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Zinc	47.1	B	2.4	0.2	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Mercury	0.0101	J	0.0248	0.0100	mg/kg dry	1.00	10/20/09 15:08	MXM	9J18064	7471A
<b><u>General Chemistry Parameters</u></b>										
Percent Solids	84		0.010	NR	%	1.00	10/12/08 15:32	JR	9J12049	Dry Weight

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10220 Harney Road, NE  
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Work Order: RSJ0643

Project: Clabattuni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-02 (S2 - Solid)			Sampled: 10/06/09 10:15 Recvd: 10/09/09 09:20							

### Volatile Organic Compounds by EPA 8260B

Methylene Chloride	2.0	J	5.5	1.1	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
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### Organochlorine Pesticides by EPA Method 8081A

delta-BHC [2C]	0.86	QFL,J	1.8	0.24	ug/kg dry	1.00	10/16/09 07:58	DGB	9J10008	8081A
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### Total Metals by SW 846 Series Methods

Aluminum	9250		10.3	1.3	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Arsenic	3.5	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Barium	52.6		0.513	0.027	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Beryllium	0.423	B	0.205	0.010	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Cadmium	0.077	J	0.205	0.041	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Calcium	1490		51.3	10.3	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Chromium	18.5		0.513	0.082	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Cobalt	7.14		0.513	0.051	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Copper	17.0		1.0	0.1	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Iron	18600		10.3	3.1	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Lead	5.7		1.0	0.1	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Magnesium	2990	B	20.5	1.0	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Manganese	414	B1, B	0.2	0.03	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Nickel	12.8		5.13	0.082	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Potassium	1460		30.8	5.0	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Sodium	78.2	J	144	31.8	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Thallium	0.5	J	6.2	0.3	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Vanadium	16.8		0.513	0.041	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Zinc	38.8	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B

### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:34	JR	9J12049	Dry Weight
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Sample ID: RSJ0643-03 (S3 - Solid)

Sampled: 10/06/09 11:00 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Methylene Chloride	1.7	J	5.7	1.1	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
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### Semivolatile Organics by GC/MS

Benzo[a]anthracene	11	J	190	3.2	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13085	8270C
Fluoranthene	10	J	190	2.7	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13085	8270C
Pyrene	10	J	190	1.2	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13085	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDT [2C]	1.1	QFL,J	1.9	0.43	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
delta-BHC [2C]	0.90	QFL,J	1.9	0.25	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.28	QFL,J	1.9	0.26	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A

### Total Metals by SW 846 Series Methods

Aluminum	9490		11.6	1.5	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Arsenic	3.6	B	2.3	0.3	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Barium	66.4		0.582	0.030	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Beryllium	0.436	B	0.233	0.012	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B

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Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DIL Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-03 (S3 - Solid) - cont.						Sampled: 10/06/09 11:00 Recvd: 10/09/09 09:20				

#### Total Metals by SW 846 Series Methods - cont.

Cadmium	0.125	J	0.233	0.047	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Calcium	3150		58.2	11.6	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Chromium	9.02		0.582	0.105	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Cobalt	6.64		0.582	0.058	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Copper	17.9		1.2	0.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Iron	17200		11.6	3.5	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Lead	6.1		1.2	0.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Magnesium	3590	B	23.3	1.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Manganese	420	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Nickel	11.3		5.82	0.093	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Potassium	1350		34.9	5.7	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Sodium	221		163	36.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Vanadium	17.4		0.582	0.047	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Zinc	37.9	B	2.3	0.2	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B

#### General Chemistry Parameters

Percent Solids	87		0.010	NR	%	1.00	10/12/09 15:36	JR	9J12049	Dry Weight
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Sample ID: RSJ0643-04 (S4 - Solid)

Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20

#### Volatile Organic Compounds by EPA 8260B

Acetone	120	J	130	5.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Ethylbenzene	29		27	1.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Isopropylbenzene	140		27	4.1	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Methylcyclohexane	110		27	1.7	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Methylene Chloride	11	J	27	5.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
m-Xylene & p-Xylene	7.2	J	54	4.5	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B

#### Organochlorine Pesticides by EPA Method 8081A

delta-BHC [2C]	0.82	QFL, J	1.8	0.24	ug/kg dry	1.00	10/16/09 09:11	DGB	9J10008	8081A
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#### Total Metals by SW 846 Series Methods

Aluminum	6660		11.6	1.5	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Arsenic	4.1	B	2.3	0.3	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Barium	54.5		0.580	0.030	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Beryllium	0.334	B	0.232	0.012	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Cadmium	0.101	J	0.232	0.046	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Calcium	1970		58.0	11.6	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Chromium	7.69		0.580	0.104	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Cobalt	6.86		0.580	0.058	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Copper	16.0		1.2	0.1	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Iron	15300		11.6	3.5	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Lead	5.5		1.2	0.1	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Magnesium	2790	B	23.2	1.1	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Manganese	210	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Nickel	13.4		5.80	0.093	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Potassium	1260		34.8	5.6	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Sodium	144	J	162	36.0	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Thallium	0.3	J	7.0	0.3	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-04 (S4 - Solid) - cont.

Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20

### Total Metals by SW 846 Series Methods - cont.

Vanadium	14.0		0.580	0.046	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Zinc	39.7	B	2.3	0.2	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B

### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:38	JR	9J12049	Dry Weight
Cyanide	0.8	J	1.0	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

Sample ID: RSJ0643-05 (S5 - Solid)

Sampled: 10/06/09 12:15 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Cyclohexane	2.1	J	5.3	0.24	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Methylene Chloride	1.5	J	5.3	1.1	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B

### Semivolatile Organics by GC/MS

Benzo[a]anthracene	67	D10,J	880	15	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Benzo[a]pyrene	61	D10,J	880	21	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Benzo[b]fluoranthene	76	D10,J	880	17	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Benzo[g,h,i]perylene	43	D10,J	880	11	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Chrysene	54	D10,J	880	8.8	ug/kg dry	5.00	10/18/09 12:53	MKP	9J13065	8270C
Phenanthrene	41	D10,J	880	18	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Pyrene	83	D10,J	880	5.7	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	0.70	QFL,J	1.8	0.34	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
4,4'-DDE [2C]	0.66	QFL,J	1.8	0.51	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
4,4'-DDT [2C]	1.6	QFL,J	1.8	0.40	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
alpha-Chlordane [2C]	0.93	QFL,J	1.8	0.88	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
delta-BHC [2C]	0.91	QFL,J	1.8	0.23	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Dieldrin [2C]	0.67	QFL,J	1.8	0.42	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.86	QFL,C4, J	1.8	0.24	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A

### Total Metals by SW 846 Series Methods

Aluminum	9150		10.6	1.3	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Arsenic	3.1	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Barium	46.3		0.531	0.028	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Beryllium	0.436	B	0.212	0.011	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Cadmium	0.169	J	0.212	0.042	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Calcium	36300		53.1	10.6	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Chromium	9.73		0.531	0.096	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Cobalt	6.84		0.531	0.053	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Copper	12.4		1.1	0.1	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Iron	15800		10.6	3.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Lead	8.1		1.1	0.1	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Magnesium	22200	B	21.2	1.0	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Manganese	493	B1, B	0.2	0.03	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Nickel	12.5		5.31	0.085	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Potassium	1190		31.8	5.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Sodium	127	J	149	32.9	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Vanadium	16.0		0.531	0.042	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B

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10220 Hamey Road, NE  
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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-05 (S5 - Solid) - cont.

Sampled: 10/06/09 12:15 Recvd: 10/09/09 09:20

### Total Metals by SW 846 Series Methods - cont.

Zinc	62.7	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Mercury	0.0090	J	0.0217	0.0088	mg/kg dry	1.00	10/20/09 15:23	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	94		0.010	NR	%	1.00	10/12/09 15:40	JR	9J12049	Dry Weight
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Sample ID: RSJ0643-06 (S6 - Solid)

Sampled: 10/06/09 12:30 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Methylene Chloride	1.7	J	5.7	1.1	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
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### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDT [2C]	1.1	QFL,J	1.9	0.43	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
alpha-BHC [2C]	0.88	QFL,J	1.9	0.34	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
delta-BHC [2C]	0.92	QFL,J	1.9	0.25	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	0.58	QFL,J	1.9	0.33	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.30	QFL,J	1.9	0.26	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A

### Total Metals by SW 846 Series Methods

Aluminum	11900		10.8	1.4	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Arsenic	2.9	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Barium	61.0		0.538	0.028	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Beryllium	0.498	B	0.215	0.011	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Cadmium	0.088	J	0.215	0.043	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Calcium	1520		53.8	10.8	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Chromium	13.7		0.538	0.097	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Cobalt	7.28		0.538	0.054	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Copper	19.0		1.1	0.1	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Iron	18900		10.8	3.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Lead	5.2		1.1	0.1	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Magnesium	3450	B	21.5	1.0	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Manganese	330	B1, B	0.2	0.03	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Nickel	13.5		5.38	0.086	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Potassium	1480		32.3	5.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Sodium	201		151	33.4	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Vanadium	22.2		0.538	0.043	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Zinc	36.2	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Mercury	0.0101	J	0.0216	0.0087	mg/kg dry	1.00	10/20/09 15:25	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	87		0.010	NR	%	1.00	10/12/09 15:42	JR	9J12049	Dry Weight
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A2L Technologies  
10220 Hamey Road, NE  
Thonolossassa, FL 33592

Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-07 (S7 - Solid)

Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

2-Butanone (MEK)	8.2	J	27	2.0	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Acetone	39		27	1.2	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene	1.9	J	5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Ethylbenzene	140		5.4	0.37	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Isopropylbenzene	33		5.4	0.82	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Methylcyclohexane	61		5.4	0.35	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Methylene Chloride	3.1	J	5.4	1.1	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
m-Xylene & p-Xylene	150		11	0.91	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
o-Xylene	9.5		5.4	0.71	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Toluene	3.4	J	5.4	0.41	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B

### Semivolatile Organics by GC/MS

2-Methylnaphthalene	310	D10,J	1900	22	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Benzo[a]anthracene	150	D10,J	1900	32	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Benzo[a]pyrene	100	D10,J	1900	45	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Benzo[b]fluoranthene	120	D10,J	1900	36	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Chrysene	100	D10,J	1900	19	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Fluoranthene	160	D10,J	1900	27	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Naphthalene	150	D10,J	1900	31	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Phenanthrene	88	D10,J	1900	39	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
Pyrene	190	D10,J	1900	12	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	1.1	QFL,J	1.8	0.35	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
4,4'-DDE [2C]	2.0	QFL	1.8	0.53	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
4,4'-DDT [2C]	2.4	QFL	1.8	0.42	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
alpha-BHC [2C]	0.95	QFL,J	1.8	0.33	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
alpha-Chlordane [2C]	1.1	QFL,J	1.8	0.91	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
delta-BHC [2C]	0.85	QFL,J	1.8	0.24	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
Dieldrin [2C]	0.77	QFL,J	1.8	0.44	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A
gamma-Chlordane [2C]	1.2	QFL,C4, J	1.8	0.25	ug/kg dry	1.00	10/19/09 17:32	DGB	9J10008	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1248	37	QSU	18	3.5	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082
Aroclor 1260	5.5	QSU,J	18	3.8	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	9510		11.0	1.4	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Arsenic	3.0	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Barium	46.2		0.549	0.029	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Beryllium	0.382	B	0.220	0.011	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Cadmium	0.121	J	0.220	0.044	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Calcium	6330		54.9	11.0	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Chromium	8.32		0.549	0.099	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Cobalt	8.93		0.549	0.055	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Copper	38.8		1.1	0.1	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Iron	24100		11.0	3.3	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Lead	12.3		1.1	0.1	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Magnesium	5550	B	22.0	1.0	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-07 (S7 - Solid) - cont.						Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20				

### Total Metals by SW 846 Series Methods - cont.

Manganese	320	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Nickel	11.8		5.49	0.088	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Potassium	1170		32.9	5.3	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Sodium	176		154	34.0	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Vanadium	31.6		0.549	0.044	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Zinc	51.6	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Mercury	0.0112	J	0.0215	0.0087	mg/kg dry	1.00	10/20/09 15:26	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:44	JR	9J12049	Dry Weight
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Sample ID: RSJ0643-08 (S8 - Solid)

Sampled: 10/06/09 15:45 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Methylene Chloride	1.7	J	5.8	1.2	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
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### Semivolatile Organics by GC/MS

Benzo[a]anthracene	120	D10,J	2000	34	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Benzo[b]fluoranthene	100	D10,J	2000	39	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Pyrene	110	D10,J	2000	13	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDE [2C]	0.59	QFL,J	2.0	0.57	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
4,4'-DDT [2C]	1.1	QFL,J	2.0	0.45	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
delta-BHC [2C]	0.99	QFL,J	2.0	0.26	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.52	QFL,C4, J	2.0	0.27	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A

### Total Metals by SW 846 Series Methods

Aluminum	9460		11.5	1.4	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Arsenic	3.9	B	2.3	0.3	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Barium	55.4		0.575	0.030	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Beryllium	0.419	B	0.230	0.012	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Cadmium	0.169	J	0.230	0.046	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Calcium	10700		57.5	11.5	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Chromium	12.0		0.575	0.104	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Cobalt	7.90		0.575	0.058	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Copper	20.0		1.2	0.1	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Iron	18700		11.5	3.5	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Lead	7.0		1.2	0.1	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Magnesium	4450	B	23.0	1.1	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Manganese	700	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Nickel	16.8		5.75	0.092	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Potassium	1320		34.5	5.6	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Sodium	120	J	161	35.7	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Thallium	0.5	J	6.9	0.3	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Vanadium	17.2		0.575	0.046	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Zinc	45.4	B	2.3	0.2	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Mercury	0.0132	J	0.0221	0.0089	mg/kg dry	1.00	10/20/09 15:28	MXM	9J19064	7471A

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-08 (S8 - Solid) - cont.

Sampled: 10/06/09 15:45 Recvd: 10/09/09 09:20

### General Chemistry Parameters

Percent Solids	84		0.010	NR	%	1.00	10/12/09 15:46	JR	9J12049	Dry Weight
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Sample ID: RSJ0643-09 (S9 - Solid)

Sampled: 10/06/09 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Cyclohexane	1.3	J	5.5	0.25	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Methylene Chloride	1.6	J	5.5	1.1	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B

### Organochlorine Pesticides by EPA Method 8081A

della-BHC [2C]	0.94	QFL,J	1.8	0.24	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	0.65	QFL,J	1.8	0.32	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.53	QFL,C4, J	1.8	0.25	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A

### Total Metals by SW 846 Series Methods

Aluminum	9060		11.9	1.5	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Arsenic	3.5	B	2.4	0.3	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Barium	52.2		0.593	0.031	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Beryllium	0.378	B	0.237	0.012	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Cadmium	0.138	J	0.237	0.047	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Calcium	4040		59.3	11.9	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Chromium	12.4		0.593	0.107	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Cobalt	7.68		0.593	0.059	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Copper	29.3		1.2	0.1	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Iron	18800		11.9	3.6	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Lead	14.5		1.2	0.1	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Magnesium	4280	B	23.7	1.1	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Manganese	280	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Nickel	13.8		5.93	0.095	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Potassium	1230		35.6	5.8	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Sodium	287		166	36.7	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Vanadium	18.8		0.593	0.047	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Zinc	49.9	B	2.4	0.2	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Mercury	0.0097	J	0.0223	0.0090	mg/kg dry	1.00	10/20/09 15:29	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	89		0.010	NR	%	1.00	10/12/09 15:48	JR	9J12049	Dry Weight
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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-10 (S10 - Solid)					Sampled: 10/06/09			Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B</u>										
Methylene Chloride	1.5	J	5.5	1.1	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
<u>Semivolatile Organics by GC/MS</u>										
Benzo[g,h,i]perylene	75	D10,J	930	11	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
4,4'-DDD [2C]	1.3	QFL,J	1.8	0.35	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
4,4'-DDE [2C]	0.70	QFL,J	1.8	0.52	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
4,4'-DDT [2C]	2.1	QFL	1.8	0.41	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
delta-BHC [2C]	0.98	QFL,J	1.8	0.24	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endosulfan II [2C]	0.46	QFL,C4, J	1.8	0.33	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.41	QFL,J	1.8	0.25	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
<u>Total Metals by SW 846 Series Methods</u>										
Aluminum	7140		11.9	1.5	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Arsenic	2.8	B	2.4	0.3	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Barium	54.1		0.597	0.031	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Beryllium	0.308	B	0.239	0.012	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Cadmium	0.091	J	0.239	0.048	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Calcium	1670		59.7	11.9	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Chromium	10.0		0.597	0.107	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Cobalt	5.24		0.597	0.060	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Copper	12.3		1.2	0.1	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Iron	14300		11.9	3.6	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Lead	48.2		1.2	0.1	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Magnesium	2730	B	23.9	1.1	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Manganese	236	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Nickel	9.69		5.97	0.096	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Potassium	1160		35.8	5.8	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Sodium	67.9	J	167	37.0	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Vanadium	14.9		0.597	0.048	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Zinc	30.0	B	2.4	0.2	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Mercury	0.0449		0.0218	0.0088	mg/kg dry	1.00	10/20/09 15:31	MXM	9J19064	7471A
<u>General Chemistry Parameters</u>										
Percent Solids	80		0.010	NR	%	1.00	10/12/09 15:50	JR	9J12049	Dry Weight

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A2L Technologies  
10220 Hamey Road, NE  
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Work Order: RSJ0643

Project: Ciablatonl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-11 (W1 - Ground Water)					Sampled: 10/07/09 11:40		Recvd: 10/09/09 09:20			

### Semivolatiles Organics by GC/MS

Diethyl phthalate	0.41	J, B	4.7	0.10	ug/L	1.00	10/13/09 18:56	MKP	9J12044	8270C
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### Total Metals by SW 846 Series Methods

Barium	0.121		0.0020	0.0003	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Calcium	112		0.5	0.1	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Cobalt	0.0026	J	0.0040	0.0008	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Magnesium	24.7		0.200	0.043	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Manganese	0.0057		0.0030	0.0002	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Potassium	3.00		0.500	0.050	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Sodium	230		1.0	0.3	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B
Zinc	0.0017	J	0.0100	0.0015	mg/L	1.00	10/13/09 18:45	DAN	9J12089	6010B

Sample ID: RSJ0643-12 (W2 - Ground Water)

Sampled: 10/07/09 14:19 Recvd: 10/09/09 09:20

### Semivolatiles Organics by GC/MS

Diethyl phthalate	0.82	J, B	4.7	0.10	ug/L	1.00	10/13/09 19:21	MKP	9J12044	8270C
Di-n-butyl phthalate	0.30	J	4.7	0.28	ug/L	1.00	10/13/09 19:21	MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

Heptachlor epoxide [2C]	0.026	J	0.047	0.0050	ug/L	1.00	10/14/09 03:02	DGB	9J09108	8081A
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### Total Metals by SW 846 Series Methods

Barium	0.198		0.0020	0.0003	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Beryllium	0.0003	J	0.0020	0.0002	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Calcium	238		0.5	0.1	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Iron	0.020	J	0.050	0.019	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Magnesium	59.5		0.200	0.043	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Manganese	0.0102		0.0030	0.0002	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Potassium	4.31		0.500	0.050	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B
Sodium	223		1.0	0.3	mg/L	1.00	10/13/09 16:50	DAN	9J12089	6010B

Sample ID: RSJ0643-13 (W3 - Ground Water)

Sampled: 10/07/09 17:21 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Acetone	4.4	J	5.0	1.3	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Isopropylbenzene	18		1.0	0.19	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Methyl tert-Butyl Ether	0.48	J	1.0	0.16	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B

### Semivolatiles Organics by GC/MS

Diethyl phthalate	0.39	J, B	4.8	0.10	ug/L	1.00	10/13/09 19:45	MKP	9J12044	8270C
Di-n-butyl phthalate	0.46	J	4.8	0.28	ug/L	1.00	10/13/09 19:45	MKP	9J12044	8270C
Fluorene	0.25	J	4.8	0.070	ug/L	1.00	10/13/09 19:45	MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDT [2C]	0.024	J	0.047	0.010	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
delta-BHC [2C]	0.026	J	0.047	0.0095	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A

### Total Metals by SW 846 Series Methods

Barium	0.232		0.0020	0.0003	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
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10220 Harney Road, NE  
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Work Order: RSJ0643

Project: Clabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-13 (W3 - Ground Water) - cont.					Sampled: 10/07/09 17:21 Recvd: 10/09/09 09:20					

### Total Metals by SW 846 Series Methods - cont.

Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
Calcium	116		0.5	0.1	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
Iron	7.32		0.050	0.019	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
Magnesium	21.4		0.200	0.043	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
Manganese	3.10		0.0030	0.0002	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
Potassium	3.99		0.500	0.050	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B
Sodium	206		1.0	0.3	mg/L	1.00	10/13/09 16:55	DAN	9J12089	6010B

Sample ID: RSJ0643-14 (W4 - Ground Water)

Sampled: 10/08/09 10:35 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

1,2-Dichlorobenzene	0.40	J	1.0	0.20	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
Acetone	4.6	J	5.0	1.3	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
Benzene	2.6		1.0	0.41	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
Ethylbenzene	2.1		1.0	0.18	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
Isopropylbenzene	29		1.0	0.19	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
Methyl tert-Butyl Ether	0.96	J	1.0	0.16	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
m,p-Xylene	0.78	J	2.0	0.66	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B
Toluene	0.68	J	1.0	0.51	ug/L	1.00	10/13/09 04:10	NMD	9J12089	8260B

### Semivolatile Organics by GC/MS

Acenaphthene	0.20	J	4.8	0.11	ug/L	1.00	10/13/09 20:10	MKP	9J12044	8270C
Diethyl phthalate	0.34	J, B	4.8	0.10	ug/L	1.00	10/13/09 20:10	MKP	9J12044	8270C
Di-n-butyl phthalate	0.66	J	4.8	0.28	ug/L	1.00	10/13/09 20:10	MKP	9J12044	8270C
Fluorene	0.23	J	4.8	0.070	ug/L	1.00	10/13/09 20:10	MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDT [2C]	0.025	J	0.047	0.010	ug/L	1.00	10/14/09 04:13	DGB	9J09108	8081A
delta-BHC [2C]	0.024	J	0.047	0.0096	ug/L	1.00	10/14/09 04:13	DGB	9J09108	8081A

### Total Metals by SW 846 Series Methods

Aluminum	0.056	J	0.200	0.040	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Barium	0.274		0.0020	0.0003	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Beryllium	0.0003	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Calcium	169		0.5	0.1	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Iron	3.15		0.050	0.019	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Magnesium	39.3		0.200	0.043	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Manganese	3.66		0.0030	0.0002	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Potassium	7.05		0.500	0.050	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Sodium	259		1.0	0.3	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Zinc	0.0139		0.0100	0.0015	mg/L	1.00	10/13/09 17:00	DAN	9J12089	6010B
Mercury	0.0001	J	0.0002	0.0001	mg/L	1.00	10/17/09 18:05	MXM	9J17027	7470A

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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-15 (W5 - Ground Water)

Sampled: 10/07/09 15:41 Recvd: 10/09/09 09:20

### Semivolatile Organics by GC/MS

Diethyl phthalate	0.61	J, B	4.8	0.10	ug/L	1.00	10/13/09 20:34	MKP	9J12044	8270C
Di-n-butyl phthalate	0.43	J	4.8	0.28	ug/L	1.00	10/13/09 20:34	MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

delta-BHC [2C]	0.021	J	0.048	0.0096	ug/L	1.00	10/14/09 04:49	DGB	9J09108	8081A
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### Total Metals by SW 846 Series Methods

Barium	0.180		0.0020	0.0003	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Beryllium	0.0003	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Calcium	174		0.5	0.1	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Cobalt	0.0006	J	0.0040	0.0006	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Iron	5.73		0.050	0.019	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Magnesium	38.3		0.200	0.043	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Manganese	1.72		0.0030	0.0002	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Potassium	3.64		0.500	0.050	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Sodium	278		1.0	0.3	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Zinc	0.0032	J	0.0100	0.0015	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B

Sample ID: RSJ0643-16 (W6 - Ground Water)

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

Benzene	8.5	D08	4.0	1.6	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
Cyclohexane	170	D08	4.0	2.1	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
Ethylbenzene	270	D08	4.0	0.74	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
Isopropylbenzene	63	D08	4.0	0.77	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
Methylcyclohexane	97	D08	4.0	2.0	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
m,p-Xylene	340	D08	8.0	2.6	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
o-Xylene	14	D08	4.0	1.4	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B
Toluene	17	D08	4.0	2.0	ug/L	4.00	10/13/09 12:10	DHC	9J13014	8260B

### Semivolatile Organics by GC/MS

2-Methylnaphthalene	19		4.8	0.078	ug/L	1.00	10/13/09 20:59	MKP	9J12044	8270C
1,1'-Biphenyl	0.68	J	4.8	0.62	ug/L	1.00	10/13/09 20:59	MKP	9J12044	8270C
Diethyl phthalate	0.30	J, B	4.8	0.10	ug/L	1.00	10/13/09 20:59	MKP	9J12044	8270C
Di-n-butyl phthalate	0.53	J	4.8	0.28	ug/L	1.00	10/13/09 20:59	MKP	9J12044	8270C
Fluorene	0.31	J	4.8	0.070	ug/L	1.00	10/13/09 20:59	MKP	9J12044	8270C
Naphthalene	72		4.8	0.11	ug/L	1.00	10/13/09 20:59	MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

alpha-BHC [2C]	0.024	J	0.047	0.0062	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
delta-BHC [2C]	0.024	J	0.047	0.0095	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Heptachlor epoxide [2C]	0.021	J	0.047	0.0050	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A

### Total Metals by SW 846 Series Methods

Arsenic	0.0081	J	0.0100	0.0056	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Barium	0.0778		0.0020	0.0003	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Calcium	38.5		0.5	0.1	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Iron	7.53		0.050	0.019	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B

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Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-16 (W6 - Ground Water) - cont.						Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20				
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Magnesium	8.65		0.200	0.043	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Manganese	2.03		0.0030	0.0002	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Potassium	2.12		0.500	0.050	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Sodium	171		1.0	0.3	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Sample ID: RSJ0643-17 (W7 - Ground Water)						Sampled: 10/08/09 08:45 Recvd: 10/09/09 09:20				
<u>Volatile Organic Compounds by EPA 8260B</u>										
Toluene	0.69	J	1.0	0.51	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
<u>Semivolatile Organics by GC/MS</u>										
Diethyl phthalate	0.47	J, B	4.7	0.10	ug/L	1.00	10/13/09 21:24	MKP	9J12044	8270C
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
Heptachlor epoxide [2C]	0.042	J	0.048	0.0050	ug/L	1.00	10/15/09 13:12	DGB	9J09108	8081A
<u>Total Metals by SW 846 Series Methods</u>										
Calcium	0.1	J	0.5	0.1	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Sample ID: RSJ0643-18 (W8 - Ground Water)						Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20				
<u>Volatile Organic Compounds by EPA 8260B</u>										
Benzene	8.6	D08	4.0	1.6	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
Cyclohexane	160	D08	4.0	2.1	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
Ethylbenzene	260	D08	4.0	0.74	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
Isopropylbenzene	60	D08	4.0	0.77	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
Methylcyclohexane	87	D08	4.0	2.0	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
m,p-Xylene	330	D08	8.0	2.6	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
o-Xylene	14	D08	4.0	1.4	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
Toluene	17	D08	4.0	2.0	ug/L	4.00	10/13/09 12:33	DHC	9J13014	8260B
<u>Semivolatile Organics by GC/MS</u>										
2-Methylnaphthalene	22		4.7	0.077	ug/L	1.00	10/13/09 21:48	MKP	9J12044	8270C
1,1'-Biphenyl	0.89	J	4.7	0.62	ug/L	1.00	10/13/09 21:48	MKP	9J12044	8270C
Di-n-butyl phthalate	0.54	J	4.7	0.28	ug/L	1.00	10/13/09 21:48	MKP	9J12044	8270C
Fluorene	0.30	J	4.7	0.070	ug/L	1.00	10/13/09 21:48	MKP	9J12044	8270C
Naphthalene	76		4.7	0.11	ug/L	1.00	10/13/09 21:48	MKP	9J12044	8270C
Phenanthrene	0.24	J	4.7	0.11	ug/L	1.00	10/13/09 21:48	MKP	9J12044	8270C
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
alpha-BHC [2C]	0.024	J	0.047	0.0062	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	0.017	J	0.047	0.0057	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Heptachlor epoxide [2C]	0.037	J	0.047	0.0050	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
<u>Total Metals by SW 846 Series Methods</u>										
Arsenic	0.0087	J	0.0100	0.0056	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Barium	0.0737		0.0020	0.0003	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Calcium	36.5		0.5	0.1	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643  
Project: Clablattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-18 (W8 - Ground Water) - cont.						Sampled: 10/07/09 18:30		Recvd: 10/09/09 09:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Iron	7.15		0.050	0.019	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Magnesium	8.22		0.200	0.043	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Manganese	1.93		0.0030	0.0002	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Potassium	2.01		0.500	0.050	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Sodium	162		1.0	0.3	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B



A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabaton Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-01 (S1 - Solid)

Sampled: 10/06/09 10:00

Recvd: 10/09/09 09:20

#### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		5.9	0.43	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.9	0.96	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.9	0.30	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	3.0	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.9	0.29	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.9	0.73	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.9	0.63	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.9	0.36	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.9	3.0	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.9	0.23	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.9	0.46	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.9	0.30	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.9	3.0	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.9	0.31	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.9	0.83	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,4-Dioxane	ND		240	29	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
2-Butanone (MEK)	ND		30	2.2	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
2-Hexanone	ND		30	2.1	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		30	1.9	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Acetone	12	J	30	1.3	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Benzene	ND		5.9	0.29	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Bromochloromethane	ND		5.9	0.43	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Bromodichloromethane	ND		5.9	0.31	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Bromoform	ND		5.9	3.0	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Bromomethane	ND		5.9	1.3	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Carbon disulfide	ND		5.9	0.51	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.9	0.58	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Chlorobenzene	ND		5.9	0.78	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Dibromochloromethane	ND		5.9	0.33	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Chloroethane	ND		5.9	2.5	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Chloroform	ND		5.9	0.37	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Chloromethane	ND		5.9	0.36	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.9	0.29	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.9	0.34	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Cyclohexane	ND		5.9	0.27	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.9	0.49	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Ethylbenzene	ND		5.9	0.41	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Isopropylbenzene	ND		5.9	0.90	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Methyl Acetate	ND		5.9	0.32	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.9	0.58	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Methylcyclohexane	ND		5.9	0.39	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Methylene Chloride	1.8	J	5.9	1.2	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		12	1.0	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
o-Xylene	ND		5.9	0.78	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Styrene	ND		5.9	0.30	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Tetrachloroethene	ND		5.9	0.80	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Toluene	ND		5.9	0.45	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-01 (S1 - Solid) - cont.

Sampled: 10/06/09 10:00 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.9	0.61	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.9	0.29	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Trichloroethene	ND		5.9	0.41	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.9	0.56	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
Vinyl chloride	ND		12	0.73	ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
1,2-Dichloroethane-d4	97 %		Surr Limits: (64-126%)				10/10/09 19:34	PQ	9J10019	8260B
4-Bromofluorobenzene	112 %		Surr Limits: (72-126%)				10/10/09 19:34	PQ	9J10019	8260B
Toluene-d8	115 %		Surr Limits: (71-125%)				10/10/09 19:34	PQ	9J10019	8260B

### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/kg dry	1.00	10/10/09 19:34	PQ	9J10019	8260B
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### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		200	18	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND		200	200	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND		200	43	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND		200	13	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,4-Dichlorophenol	ND		200	10	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,4-Dimethylphenol	ND		200	53	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,4-Dinitrophenol	ND		390	69	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND		200	31	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND		200	48	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2-Chloronaphthalene	ND		200	13	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2-Chlorophenol	ND		200	10	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2-Methylnaphthalene	ND		200	2.4	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2-Methylphenol	ND		200	6.1	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2-Nitroaniline	ND		390	63	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
2-Nitrophenol	ND		200	9.0	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND		200	170	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
3-Nitroaniline	ND		390	45	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND		390	68	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND		200	63	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND		200	8.1	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Chloroaniline	ND		200	58	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND		200	4.2	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Methylphenol	ND		390	11	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Nitroaniline	ND		390	22	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
4-Nitrophenol	ND		390	48	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Acenaphthene	ND		200	2.3	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Acenaphthylene	ND		200	1.6	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Acetophenone	ND		200	10	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Anthracene	ND		200	5.1	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Atrazine	ND		200	8.8	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzaldehyde	ND		200	22	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzo[a]anthracene	21	J	200	3.4	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C
Benzo[a]pyrene	18	J	200	4.8	ug/kg dry	1.00	10/16/09 12:04	MKP	9J13065	8270C

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Work Order: RSJ0643

Project: Ciablatoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-01 (S1 - Solid) - cont.

Sampled: 10/06/09 10:00 Recvd: 10/09/09 09:20

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	21	J	200	3.8	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Benzo[g,h,i]perylene	14	J	200	2.4	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Benzo[k]fluoranthene	12	J	200	2.2	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
1,1'-Biphenyl	ND		200	12	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND		200	11	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND		200	17	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND		200	21	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND		200	64	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Butyl benzyl phthalate	ND		200	53	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Caprolactam	ND		200	85	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Carbazole	ND		200	2.3	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Chrysene	21	J	200	2.0	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND		200	2.3	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Dibenzofuran	ND		200	2.1	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Diethyl phthalate	ND		200	6.0	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Dimethyl phthalate	ND		200	5.1	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Di-n-butyl phthalate	ND		200	68	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Di-n-octyl phthalate	ND		200	4.6	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Fluoranthene	35	J	200	2.9	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Fluorene	ND		200	4.5	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Hexachlorobenzene	ND		200	9.8	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Hexachlorobutadiene	ND		200	10	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND		200	60	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Hexachloroethane	ND		200	15	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	12	J	200	5.5	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Isophorone	ND		200	9.9	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Naphthalene	ND		200	3.3	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Nitrobenzene	ND		200	8.7	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND		200	16	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND		200	11	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Pentachlorophenol	ND		390	68	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Phenanthrene	16	J	200	4.1	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Phenol	ND		200	21	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
Pyrene	36	J	200	1.3	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C

2,4,6-Tribromophenol	59 %		Surr Limits: (39-146%)			10/16/09 12:04 MKP	9J13065	8270C
2-Fluorobiphenyl	56 %		Surr Limits: (37-120%)			10/16/09 12:04 MKP	9J13065	8270C
2-Fluorophenol	39 %		Surr Limits: (18-120%)			10/16/09 12:04 MKP	9J13065	8270C
Nitrobenzene-d5	52 %		Surr Limits: (34-132%)			10/16/09 12:04 MKP	9J13065	8270C
Phenol-d5	45 %		Surr Limits: (11-120%)			10/16/09 12:04 MKP	9J13065	8270C
p-Terphenyl-d14	60 %		Surr Limits: (58-147%)			10/16/09 12:04 MKP	9J13065	8270C

#### Semivolatile Organics TICs by GC/MS

Unknown01 (none)	270	T7, B	Ret Time: 11.744	ug/kg dry	1.00	10/16/09 12:04 MKP	9J13065	8270C
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#### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	0.97	QFL,J	1.9	0.37	ug/kg dry	1.00	10/16/09 07:23 DGB	9J10008	8081A
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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-01 (S1 - Solid) - cont.

Sampled: 10/06/09 10:00 Recvd: 10/09/09 09:20

#### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	1.0	QFL,J	1.9	0.55	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
4,4'-DDT [2C]	1.7	QFL,J	1.9	0.44	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.9	0.20	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
alpha-BHC [2C]	1.6	QFL,J	1.9	0.35	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.9	0.06	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.9	1.4	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
delta-BHC [2C]	0.91	QFL,J	1.9	0.25	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Dieldrin [2C]	0.61	QFL,J	1.9	0.46	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.9	0.41	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL	1.9	0.35	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL,C	1.9	0.36	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endrin [2C]	ND	QFL	1.9	0.62	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL	1.9	0.49	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Endrin ketone [2C]	0.70	QFL,J	1.9	0.47	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.9	0.33	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
gamma-Chlordane [2C]	1.3	QFL,J	1.9	0.26	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.9	0.30	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.9	0.49	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL	1.9	0.51	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	19	11	ug/kg dry	1.00	10/16/09 07:23	DGB	9J10008	8081A
Decachlorobiphenyl [2C]	95 %	QFL	Surr Limits: (42-146%)				10/16/09 07:23	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	73 %	QFL	Surr Limits: (37-136%)				10/16/09 07:23	DGB	9J10008	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		19	3.8	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1221	ND		19	3.8	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1232	ND		19	3.8	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1242	ND		19	4.2	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1248	ND		19	3.8	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1254	ND		19	4.1	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1260	ND		19	4.1	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1262	ND		19	4.1	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Aroclor 1268	ND		19	4.1	ug/kg dry	1.00	10/18/09 16:51	SCH	9J16100	8082
Decachlorobiphenyl	80 %		Surr Limits: (34-148%)				10/18/09 16:51	SCH	9J16100	8082
Tetrachloro-m-xylene	86 %		Surr Limits: (35-134%)				10/18/09 16:51	SCH	9J16100	8082

#### Total Metals by SW 846 Series Methods

Aluminum	10100		12.2	1.5	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Antimony	ND		18.3	0.7	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Arsenic	4.3	B	2.4	0.3	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Barium	61.8		0.611	0.032	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Beryllium	0.455	B	0.245	0.012	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Cadmium	0.152	J	0.245	0.049	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Calcium	3030		61.1	12.2	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Chromium	10.9		0.611	0.110	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Cobalt	8.05		0.611	0.061	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Copper	20.2		1.2	0.1	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Iron	19300		12.2	3.7	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-01 (S1 - Solid) - cont.

Sampled: 10/06/09 10:00 Recvd: 10/09/09 09:20

#### Total Metals by SW 846 Series Methods - cont.

Lead	7.6		1.2	0.1	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Magnesium	4050	B	24.5	1.1	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Manganese	433	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Nickel	14.3		6.11	0.098	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Potassium	1460		36.7	5.9	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Selenium	ND		4.9	0.7	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Silver	ND		0.611	0.086	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Sodium	80.0	J	171	37.9	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Thallium	ND		7.3	0.4	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Vanadium	19.9		0.611	0.049	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Zinc	47.1	B	2.4	0.2	mg/kg dry	1.00	10/20/09 21:57	DAN	9J15055	6010B
Mercury	0.0101	J	0.0248	0.0100	mg/kg dry	1.00	10/20/09 15:08	MXM	9J19064	7471A

#### General Chemistry Parameters

Percent Solids	84		0.010	NR	%	1.00	10/12/09 15:32	JR	9J12049	Dry Weight
Cyanide	ND		1.1	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

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Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-02 (S2 - Solid)

Sampled: 10/06/09 10:15 Recvd: 10/09/09 09:20

#### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		5.5	0.40	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.5	0.89	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.5	0.67	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.5	0.58	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.5	0.33	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.5	0.21	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.5	0.43	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.5	0.77	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
1,4-Dioxane	ND		220	26	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
2-Butanone (MEK)	ND		27	2.0	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
2-Hexanone	ND		27	1.8	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Benzene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Bromochloromethane	ND		5.5	0.40	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Bromodichloromethane	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Bromoform	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Bromomethane	ND		5.5	1.2	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Carbon disulfide	ND		5.5	0.47	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.5	0.53	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Chlorobenzene	ND		5.5	0.72	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Dibromochloromethane	ND		5.5	0.30	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Chloroethane	ND		5.5	2.3	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Chloroform	ND		5.5	0.34	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Chloromethane	ND		5.5	0.33	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.5	0.31	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Cyclohexane	ND		5.5	0.25	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.5	0.45	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Isopropylbenzene	ND		5.5	0.83	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Methyl Acetate	ND		5.5	0.30	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.5	0.54	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Methylcyclohexane	ND		5.5	0.35	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Methylene Chloride	2.0	J	5.5	1.1	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		11	0.92	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
o-Xylene	ND		5.5	0.71	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Styrene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Tetrachloroethene	ND		5.5	0.73	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Toluene	ND		5.5	0.41	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B

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## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-02 (S2 - Solid) - cont.

Sampled: 10/06/09 10:15 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.5	0.56	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Trichloroethene	ND		5.5	0.38	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.5	0.52	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.67	ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B

1,2-Dichloroethane-d4	99 %		Surr Limits: (64-126%)				10/10/09 19:59	PQ	9J10019	8260B
4-Bromofluorobenzene	110 %		Surr Limits: (72-126%)				10/10/09 19:59	PQ	9J10019	8260B
Toluene-d8	111 %		Surr Limits: (71-125%)				10/10/09 19:59	PQ	9J10019	8260B

### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/kg dry	1.00	10/10/09 19:59	PQ	9J10019	8260B
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### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		190	17	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND		190	190	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND		190	40	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND		190	12	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,4-Dichlorophenol	ND		190	9.7	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,4-Dimethylphenol	ND		190	50	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,4-Dinitrophenol	ND		360	65	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND		190	29	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND		190	45	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2-Chloronaphthalene	ND		190	12	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2-Chlorophenol	ND		190	9.4	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2-Methylnaphthalene	ND		190	2.2	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2-Methylphenol	ND		190	5.7	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2-Nitroaniline	ND		360	59	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
2-Nitrophenol	ND		190	8.5	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND		190	160	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
3-Nitroaniline	ND		360	43	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND		360	64	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND		190	59	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND		190	7.6	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Chloroaniline	ND		190	54	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND		190	3.9	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Methylphenol	ND		360	10	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Nitroaniline	ND		360	21	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
4-Nitrophenol	ND		360	45	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Acenaphthene	ND		190	2.2	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Acenaphthylene	ND		190	1.5	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Acetophenone	ND		190	9.5	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Anthracene	ND		190	4.7	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Atrazine	ND		190	8.2	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Benzaldehyde	ND		190	20	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Benzo[a]anthracene	ND		190	3.2	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C
Benzo[a]pyrene	ND		190	4.5	ug/kg dry	1.00	10/15/09 21:32	MKP	9J13065	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-02 (S2 - Solid) - cont.						Sampled: 10/06/09 10:15 Recvd: 10/09/09 09:20				

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		190	3.6	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Benzo[g,h,i]perylene	ND		190	2.2	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND		190	2.0	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
1,1'-Biphenyl	ND		190	12	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND		190	10	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND		190	16	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND		190	19	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND		190	60	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Butyl benzyl phthalate	ND		190	50	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Caprolactam	ND		190	80	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Carbazole	ND		190	2.1	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Chrysene	ND		190	1.9	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND		190	2.2	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Dibenzofuran	ND		190	1.9	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Diethyl phthalate	ND		190	5.6	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Dimethyl phthalate	ND		190	4.8	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Di-n-butyl phthalate	ND		190	64	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Di-n-octyl phthalate	ND		190	4.3	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Fluoranthene	ND		190	2.7	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Fluorene	ND		190	4.3	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Hexachlorobenzene	ND		190	9.2	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Hexachlorobutadiene	ND		190	9.5	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND		190	56	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Hexachloroethane	ND		190	14	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND		190	5.1	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Isophorone	ND		190	9.2	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Naphthalene	ND		190	3.1	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Nitrobenzene	ND		190	8.2	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND		190	15	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND		190	10	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Pentachlorophenol	ND		360	63	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Phenanthrene	ND		190	3.9	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Phenol	ND		190	19	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
Pyrene	ND		190	1.2	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
2,4,6-Tribromophenol	78 %		Surr Limits: (39-146%)				10/15/09 21:32 MKP	9J13065	8270C
2-Fluorobiphenyl	71 %		Surr Limits: (37-120%)				10/15/09 21:32 MKP	9J13065	8270C
2-Fluorophenol	54 %		Surr Limits: (18-120%)				10/15/09 21:32 MKP	9J13065	8270C
Nitrobenzene-d5	67 %		Surr Limits: (34-132%)				10/15/09 21:32 MKP	9J13065	8270C
Phenol-d5	57 %		Surr Limits: (11-120%)				10/15/09 21:32 MKP	9J13065	8270C
p-Terphenyl-d14	84 %		Surr Limits: (58-147%)				10/15/09 21:32 MKP	9J13065	8270C

#### Semivolatile Organics TICs by GC/MS

Unknown01 (none)	310	T7, B	Ret Time: 11.749	ug/kg dry	1.00	10/15/09 21:32 MKP	9J13065	8270C
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#### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.8	0.35	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-02 (S2 - Solid) - cont.						Sampled: 10/06/09 10:15 Recvd: 10/09/09 09:20				

#### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	ND	QFL	1.8	0.53	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
4,4'-DDT [2C]	ND	QFL	1.8	0.42	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.8	0.19	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.8	0.91	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
delta-BHC [2C]	0.06	QFL,J	1.8	0.24	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	1.8	0.44	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.39	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL,C	1.8	0.34	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Endrin [2C]	ND	QFL	1.8	0.59	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.45	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.8	0.32	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
gamma-Chlordane [2C]	ND	QFL	1.8	0.25	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.8	0.29	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL	1.8	0.49	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	18	11	ug/kg dry	1.00	10/16/09 07:59 DGB	9J10008	8081A
Decachlorobiphenyl [2C]	81 %	QFL	Surr Limits: (42-146%)				10/16/09 07:59 DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	67 %	QFL	Surr Limits: (37-136%)				10/16/09 07:59 DGB	9J10008	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		18	3.5	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1221	ND		18	3.5	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1232	ND		18	3.5	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1242	ND		18	3.9	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1248	ND		18	3.6	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1254	ND		18	3.8	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1260	ND		18	3.8	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1262	ND		18	3.8	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Aroclor 1268	ND		18	3.8	ug/kg dry	1.00	10/18/09 17:05 SCH	9J16100	8082
Decachlorobiphenyl	87 %		Surr Limits: (34-148%)				10/18/09 17:05 SCH	9J16100	8082
Tetrachloro-m-xylene	80 %		Surr Limits: (35-134%)				10/18/09 17:05 SCH	9J16100	8082

#### Total Metals by SW 846 Series Methods

Aluminum	9250		10.3	1.3	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Antimony	ND		15.4	0.6	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Arsenic	3.5	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Barium	52.6		0.513	0.027	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Beryllium	0.423	B	0.205	0.010	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Cadmium	0.077	J	0.205	0.041	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Calcium	1490		51.3	10.3	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Chromium	18.5		0.513	0.092	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Cobalt	7.14		0.513	0.051	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Copper	17.0		1.0	0.1	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B
Iron	18600		10.3	3.1	mg/kg dry	1.00	10/20/09 22:02 DAN	9J15055	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clablattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-02 (S2 - Solid) - cont.

Sampled: 10/06/09 10:15 Recvd: 10/09/09 09:20

#### Total Metals by SW 846 Series Methods - cont.

Lead	5.7		1.0	0.1	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Magnesium	2990	B	20.5	1.0	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Manganese	414	B1, B	0.2	0.03	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Nickel	12.8		5.13	0.082	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Potassium	1460		30.8	5.0	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Selenium	ND		4.1	0.6	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Silver	ND		0.513	0.072	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Sodium	78.2	J	144	31.8	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Thallium	0.5	J	6.2	0.3	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Vanadium	16.8		0.513	0.041	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Zinc	38.8	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:02	DAN	9J15055	6010B
Mercury	ND		0.0220	0.0089	mg/kg dry	1.00	10/20/09 15:14	MXM	9J19084	7471A

#### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:34	JR	9J12049	Dry Weight
Cyanide	ND		1.0	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

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10220 Harney Road, NE  
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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-03 (S3 - Solid)						Sampled: 10/06/09 11:00		Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		5.7	0.41	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.7	0.92	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	2.8	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.7	0.69	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.7	0.60	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.7	0.35	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.7	2.8	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.7	0.22	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.7	0.44	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.7	2.8	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.7	0.79	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
1,4-Dioxane	ND		230	27	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
2-Butanone (MEK)	ND		28	2.1	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
2-Hexanone	ND		28	2.0	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		28	1.9	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Acetone	ND		28	1.2	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Benzene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Bromochloromethane	ND		5.7	0.41	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Bromodichloromethane	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Bromoform	ND		5.7	2.8	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Bromomethane	ND		5.7	1.3	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Carbon disulfide	ND		5.7	0.49	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.7	0.55	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Chlorobenzene	ND		5.7	0.75	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Dibromochloromethane	ND		5.7	0.31	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Chloroethane	ND		5.7	2.4	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Chloroform	ND		5.7	0.35	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Chloromethane	ND		5.7	0.34	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.7	0.32	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Cyclohexane	ND		5.7	0.26	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.7	0.47	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Ethylbenzene	ND		5.7	0.39	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Isopropylbenzene	ND		5.7	0.86	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Methyl Acetate	ND		5.7	0.31	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.7	0.56	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Methylcyclohexane	ND		5.7	0.37	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Methylene Chloride	1.7	J	5.7	1.1	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		11	0.95	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
o-Xylene	ND		5.7	0.74	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Styrene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Tetrachloroethene	ND		5.7	0.76	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Toluene	ND		5.7	0.43	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B

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A2L Technologies  
10220 Hamay Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-03 (S3 - Solid) - cont.

Sampled: 10/06/09 11:00 Recvd: 10/09/09 09:20

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.7	0.59	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Trichloroethene	ND		5.7	0.39	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.7	0.54	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.89	ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B

1,2-Dichloroethane-d4	97 %		Surr Limits: (64-126%)				10/10/09 20:24	PQ	9J10019	8260B
4-Bromofluorobenzene	111 %		Surr Limits: (72-126%)				10/10/09 20:24	PQ	9J10019	8260B
Toluene-d8	113 %		Surr Limits: (71-125%)				10/10/09 20:24	PQ	9J10019	8260B

#### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/kg dry	1.00	10/10/09 20:24	PQ	9J10019	8260B
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#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		190	17	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND		190	190	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND		190	41	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND		190	12	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,4-Dichlorophenol	ND		190	9.8	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,4-Dimethylphenol	ND		190	51	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,4-Dinitrophenol	ND		370	66	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND		190	29	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND		190	46	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2-Chloronaphthalene	ND		190	13	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2-Chlorophenol	ND		190	9.6	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2-Methylnaphthalene	ND		190	2.3	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2-Methylphenol	ND		190	5.8	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2-Nitroaniline	ND		370	60	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
2-Nitrophenol	ND		190	8.6	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND		190	160	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
3-Nitroaniline	ND		370	43	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND		370	65	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND		190	60	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND		190	7.7	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Chloroaniline	ND		190	55	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Methylphenol	ND		370	10	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Nitroaniline	ND		370	21	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
4-Nitrophenol	ND		370	46	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Acenaphthene	ND		190	2.2	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Acenaphthylene	ND		190	1.5	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Acetophenone	ND		190	9.6	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Anthracene	ND		190	4.8	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Alrazine	ND		190	8.4	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Benzaldehyde	ND		190	21	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Benzo[a]anthracene	11	J	190	3.2	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C
Benzo[a]pyrene	ND		190	4.5	ug/kg dry	1.00	10/16/09 12:28	MKP	9J13065	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

# Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-03 (S3 - Solid) - cont.						Sampled: 10/06/09 11:00 Recvd: 10/09/09 09:20				

## Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		190	3.6	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Benzo[g,h,i]perylene	ND		190	2.3	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND		190	2.1	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
1,1'-Biphenyl	ND		190	12	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND		190	10	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND		190	16	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND		190	20	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND		190	61	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Butyl benzyl phthalate	ND		190	50	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Caprolactam	ND		190	81	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Carbazole	ND		190	2.2	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Chrysene	ND		190	1.9	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND		190	2.2	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Dibenzofuran	ND		190	2.0	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Diethyl phthalate	ND		190	5.7	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Dimethyl phthalate	ND		190	4.9	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Di-n-butyl phthalate	ND		190	85	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Di-n-octyl phthalate	ND		190	4.4	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Fluoranthene	10	J	190	2.7	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Fluorene	ND		190	4.3	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Hexachlorobenzene	ND		190	9.3	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Hexachlorobutadiene	ND		190	9.6	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND		190	57	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Hexachloroethane	ND		190	15	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND		190	5.2	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Isophorone	ND		190	9.4	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Naphthalene	ND		190	3.1	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Nitrobenzene	ND		190	8.3	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND		190	15	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND		190	10	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Pentachlorophenol	ND		370	64	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Phenanthrene	ND		190	3.9	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Phenol	ND		190	20	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
Pyrene	10	J	190	1.2	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
2,4,6-Tribromophenol	61 %		Surr Limits: (39-146%)				10/16/09 12:28 MKP	9J13065	8270C
2-Fluorobiphenyl	55 %		Surr Limits: (37-120%)				10/16/09 12:28 MKP	9J13065	8270C
2-Fluorophenol	41 %		Surr Limits: (18-120%)				10/16/09 12:28 MKP	9J13065	8270C
Nitrobenzene-d5	53 %		Surr Limits: (34-132%)				10/16/09 12:28 MKP	9J13065	8270C
Phenol-d5	47 %		Surr Limits: (11-120%)				10/16/09 12:28 MKP	9J13065	8270C
p-Terphenyl-d14	61 %		Surr Limits: (58-147%)				10/16/09 12:28 MKP	9J13065	8270C

## Semivolatile Organics TICs by GC/MS

Unknown01 (none)	210	T7, B	Ret Time: 11.744	ug/kg dry	1.00	10/16/09 12:28 MKP	9J13065	8270C
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## Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.9	0.37	ug/kg dry	1.00	10/16/09 08:35 DGB	9J10008	8081A
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A2L Technologies  
10220 Harney Road, NE  
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Work Order: RSJ0643  
Project: Clabattionl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-03 (S3 - Solid) - cont.						Sampled: 10/06/09 11:00 Recvd: 10/09/09 09:20				

#### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	ND	QFL	1.9	0.54	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
4,4'-DDT [2C]	1.1	QFL,J	1.9	0.43	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.9	0.19	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	1.9	0.34	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.9	0.94	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.9	1.4	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
delta-BHC [2C]	0.90	QFL,J	1.9	0.25	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	1.9	0.45	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.9	0.40	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL	1.9	0.34	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL,C	1.9	0.35	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Endrin [2C]	ND	QFL	1.9	0.61	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL	1.9	0.48	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.9	0.46	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.9	0.33	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.29	QFL,J	1.9	0.26	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.9	0.30	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.9	0.49	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL	1.9	0.50	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	19	11	ug/kg dry	1.00	10/16/09 08:35	DGB	9J10008	8081A
Decachlorobiphenyl [2C]	89 %	QFL	Surr Limits: (42-146%)				10/16/09 08:35	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	76 %	QFL	Surr Limits: (37-136%)				10/16/09 08:35	DGB	9J10008	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		19	3.7	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1221	ND		19	3.7	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1232	ND		19	3.7	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1242	ND		19	4.1	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1248	ND		19	3.7	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1254	ND		19	4.0	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1260	ND		19	4.0	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1262	ND		19	4.0	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Aroclor 1268	ND		19	4.0	ug/kg dry	1.00	10/18/09 17:20	SCH	9J16100	8082
Decachlorobiphenyl	98 %		Surr Limits: (34-148%)				10/18/09 17:20	SCH	9J16100	8082
Tetrachloro-m-xylene	86 %		Surr Limits: (35-134%)				10/18/09 17:20	SCH	9J16100	8082

#### Total Metals by SW 846 Series Methods

Aluminum	9490		11.6	1.5	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Antimony	ND		17.5	0.6	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Arsenic	3.6	B	2.3	0.3	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Barium	66.4		0.582	0.030	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Beryllium	0.436	B	0.233	0.012	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Cadmium	0.125	J	0.233	0.047	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Calcium	3150		58.2	11.6	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Chromium	9.02		0.582	0.105	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Cobalt	6.64		0.582	0.058	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Copper	17.9		1.2	0.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Iron	17200		11.6	3.5	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-03 (S3 - Solid) - cont.						Sampled: 10/06/09 11:00		Recvd: 10/09/09 09:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Lead	6.1	B B1, B	1.2	0.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Magnesium	3590		23.3	1.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Manganese	420		0.2	0.04	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Nickel	11.3		5.82	0.093	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Potassium	1350		34.9	5.7	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Selenium	ND	B	4.7	0.7	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Silver	ND		0.582	0.081	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Sodium	221		163	36.1	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Thallium	ND		7.0	0.3	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Vanadium	17.4		0.582	0.047	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Zinc	37.9		2.3	0.2	mg/kg dry	1.00	10/20/09 22:07	DAN	9J15055	6010B
Mercury	ND		0.0232	0.0094	mg/kg dry	1.00	10/20/09 15:16	MXM	9J19064	7471A
<u>General Chemistry Parameters</u>										
Percent Solids	87		0.010	NR	%	1.00	10/12/09 15:36	JR	9J12049	Dry Weight
Cyanide	ND		1.0	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

A2L Technologies  
10220 Hamey Road, NE  
Thornton, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-04 (S4 - Solid)						Sampled: 10/06/09 11:15		Recvd: 10/09/09 08:20		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		27	2.0	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		27	4.4	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		27	1.4	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		27	13	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,1-Dichloroethane	ND		27	1.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,1-Dichloroethene	ND		27	3.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		27	2.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		27	1.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		27	13	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		27	1.0	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		27	2.1	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2-Dichloroethane	ND		27	1.4	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2-Dichloropropane	ND		27	13	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		27	1.4	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		27	3.8	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,4-Dioxane	ND		1100	130	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
2-Butanone (MEK)	ND		130	9.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
2-Hexanone	ND		130	9.4	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		130	8.8	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Acetone	120	J	130	5.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Benzene	ND		27	1.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Bromochloromethane	ND		27	1.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Bromodichloromethane	ND		27	1.4	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Bromoform	ND		27	13	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Bromomethane	ND		27	6.0	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Carbon disulfide	ND		27	2.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Carbon Tetrachloride	ND		27	2.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Chlorobenzene	ND		27	3.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Dibromochloromethane	ND		27	1.5	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Chloroethane	ND		27	11	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Chloroform	ND		27	1.7	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Chloromethane	ND		27	1.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		27	1.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		27	1.5	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Cyclohexane	ND		27	1.2	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		27	2.2	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Ethylbenzene	29		27	1.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Isopropylbenzene	140		27	4.1	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Methyl Acetate	ND		27	1.5	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		27	2.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Methylcyclohexane	110		27	1.7	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Methylene Chloride	11	J	27	5.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
m-Xylene & p-Xylene	7.2	J	54	4.5	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
o-Xylene	ND		27	3.5	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Styrene	ND		27	1.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Tetrachloroethene	ND		27	3.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Toluene	ND		27	2.0	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-04 (S4 - Solid) - cont.						Sampled: 10/06/09 11:15		Recvd: 10/09/09 09:20		

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		27	2.8	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		27	1.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Trichloroethene	ND		27	1.9	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Trichlorofluoromethane	ND		27	2.6	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Vinyl chloride	ND		54	3.3	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1,2-Dichloroethane-d4	95 %		Surr Limits: (64-126%)				10/10/09 20:49	PQ	9J10019	8260B
4-Bromofluorobenzene	107 %		Surr Limits: (72-126%)				10/10/09 20:49	PQ	9J10019	8260B
Toluene-d8	116 %		Surr Limits: (71-125%)				10/10/09 20:49	PQ	9J10019	8260B

#### Tentatively Identified Compounds by EPA 8260B

1H-Indene, 2,3-dihydro-1,6-dimethyl- (017059-48-2)	630	T7	Ret Time: 11.299	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
1H-Indene, 2,3-dihydro-4-methyl- (000824-22-6)	1100	T7	Ret Time: 10.904	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Benzene, (2-methyl-2-propenyl)- (003290-53-7)	610	T7	Ret Time: 10.234	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Benzene, 1,2,4,5-tetramethyl- (000095-93-2)	1100	T7	Ret Time: 10.496	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Benzene, 1,2-diethyl- (000135-01-3)	950	T7	Ret Time: 9.687	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Benzene, 1-ethyl-2,3-dimethyl- (000933-98-2)	1500	T7	Ret Time: 10.137	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Benzene, propyl- (000103-65-1)	620	T7	Ret Time: 8.44	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Unknown01 (none)	560	T7	Ret Time: 5.185	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Unknown02 (none)	650	T7	Ret Time: 5.361	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B
Unknown03 (none)	580	T7	Ret Time: 11.214	ug/kg dry	1.00	10/10/09 20:49	PQ	9J10019	8260B

#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		190	17	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND		190	190	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND		190	41	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND		190	12	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,4-Dichlorophenol	ND		190	9.8	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,4-Dimethylphenol	ND		190	50	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,4-Dinitrophenol	ND		360	65	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND		190	29	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND		190	46	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2-Chloronaphthalene	ND		190	12	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2-Chlorophenol	ND		190	9.5	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2-Methylnaphthalene	ND		190	2.3	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2-Methylphenol	ND		190	5.7	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2-Nitroaniline	ND		360	60	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
2-Nitrophenol	ND		190	8.5	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND		190	160	ug/kg dry	1.00	10/15/09 22:22	MKP	9J13065	8270C

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## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-04 (S4 - Solid) - cont.

Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20

Semivolatile Organics by GC/MS - cont.

3-Nitroaniline	ND		360	43	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4,6-Dinitro-2-methylphenol	ND		360	64	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Bromophenyl phenyl ether	ND		190	59	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Chloro-3-methylphenol	ND		190	7.7	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Chloroaniline	ND		190	55	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Methylphenol	ND		360	10	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Nitroaniline	ND		360	21	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
4-Nitrophenol	ND		360	45	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Acenaphthene	ND		190	2.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Acenaphthylene	ND		190	1.5	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Acetophenone	ND		190	9.5	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Anthracene	ND		190	4.8	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Alrazine	ND		190	8.3	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Benzaldehyde	ND		190	20	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Benzo[a]anthracene	ND		190	3.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Benzo[a]pyrene	ND		190	4.5	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Benzo[b]fluoranthene	ND		190	3.6	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Benzo[g,h,i]perylene	ND		190	2.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Benzo[k]fluoranthene	ND		190	2.0	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
1,1'-Biphenyl	ND		190	12	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Bis(2-chloroethoxy)methane	ND		190	10	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Bis(2-chloroethyl)ether	ND		190	16	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
2,2'-Oxybis(1-Chloropropene)	ND		190	19	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Bis(2-ethylhexyl)phthalate	ND		190	60	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Butyl benzyl phthalate	ND		190	50	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Caprolactam	ND		190	80	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Carbazole	ND		190	2.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Chrysene	ND		190	1.9	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Dibenz[a,h]anthracene	ND		190	2.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Dibenzofuran	ND		190	1.9	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Diethyl phthalate	ND		190	5.6	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Dimethyl phthalate	ND		190	4.9	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Di-n-butyl phthalate	ND		190	64	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Di-n-octyl phthalate	ND		190	4.4	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Fluoranthene	ND		190	2.7	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Fluorene	ND		190	4.3	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Hexachlorobenzene	ND		190	9.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Hexachlorobutadiene	ND		190	9.5	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Hexachlorocyclopentadiene	ND		190	56	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Hexachloroethane	ND		190	14	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Indeno[1,2,3-cd]pyrene	ND		190	5.1	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Isophorone	ND		190	9.3	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Naphthalene	ND		190	3.1	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C
Nitrobenzene	ND		190	8.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065		8270C

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Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-04 (S4 - Solid) - cont.						Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20				

#### Semivolatile Organics by GC/MS - cont.

N-Nitrosodi-n-propylamine	ND		190	15	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND		190	10	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
Pentachlorophenol	ND		360	64	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
Phenanthrene	ND		190	3.9	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
Phenol	ND		190	20	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
Pyrene	ND		190	1.2	ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
2,4,6-Tribromophenol	90 %		Surr Limits: (39-146%)				10/15/09 22:22 MKP	9J13065	8270C
2-Fluorobiphenyl	82 %		Surr Limits: (37-120%)				10/15/09 22:22 MKP	9J13065	8270C
2-Fluorophenol	59 %		Surr Limits: (18-120%)				10/15/09 22:22 MKP	9J13065	8270C
Nitrobenzene-d5	73 %		Surr Limits: (34-132%)				10/15/09 22:22 MKP	9J13065	8270C
Phenol-d5	63 %		Surr Limits: (11-120%)				10/15/09 22:22 MKP	9J13065	8270C
p-Terphenyl-d14	92 %		Surr Limits: (58-147%)				10/15/09 22:22 MKP	9J13065	8270C

#### Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND				ug/kg dry	1.00	10/15/09 22:22 MKP	9J13065	8270C
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#### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.8	0.36	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
4,4'-DDE [2C]	ND	QFL	1.8	0.53	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
4,4'-DDT [2C]	ND	QFL	1.8	0.42	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.8	0.19	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.8	0.91	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
delta-BHC [2C]	0.82	QFL,J	1.8	0.24	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	1.8	0.44	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.39	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL,C	1.8	0.34	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Endrin [2C]	ND	QFL	1.8	0.59	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.45	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.8	0.32	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
gamma-Chlordane [2C]	ND	QFL	1.8	0.25	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.8	0.29	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL	1.8	0.49	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	18	11	ug/kg dry	1.00	10/16/09 09:11 DGB	9J10008	8081A
Decachlorobiphenyl [2C]	78 %	QFL	Surr Limits: (42-146%)				10/16/09 09:11 DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	70 %	QFL	Surr Limits: (37-136%)				10/16/09 09:11 DGB	9J10008	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND	QSU	18	3.6	ug/kg dry	1.00	10/18/09 17:34 SCH	9J16100	8082
Aroclor 1221	ND	QSU	18	3.6	ug/kg dry	1.00	10/18/09 17:34 SCH	9J16100	8082
Aroclor 1232	ND	QSU	18	3.6	ug/kg dry	1.00	10/18/09 17:34 SCH	9J16100	8082
Aroclor 1242	ND	QSU	18	4.0	ug/kg dry	1.00	10/18/09 17:34 SCH	9J16100	8082
Aroclor 1248	ND	QSU	18	3.6	ug/kg dry	1.00	10/18/09 17:34 SCH	9J16100	8082

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-04 (S4 - Solid) - cont.						Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20				

### Polychlorinated Biphenyls by EPA Method 8082 - cont.

Aroclor 1254	ND	QSU	18	3.9	ug/kg dry	1.00	10/18/09 17:34	SCH	9J16100	8082
Aroclor 1260	ND	QSU	18	3.9	ug/kg dry	1.00	10/18/09 17:34	SCH	9J16100	8082
Aroclor 1262	ND	QSU	18	3.9	ug/kg dry	1.00	10/18/09 17:34	SCH	9J16100	8082
Aroclor 1268	ND	QSU	18	3.9	ug/kg dry	1.00	10/18/09 17:34	SCH	9J16100	8082
Decachlorobiphenyl	108 %	QSU	Surr Limits: (34-148%)				10/18/09 17:34	SCH	9J16100	8082
Tetrachloro-m-xylene	84 %	QSU	Surr Limits: (35-134%)				10/18/09 17:34	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	6660		11.6	1.5	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Antimony	ND		17.4	0.6	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Arsenic	4.1	B	2.3	0.3	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Barium	54.5		0.580	0.030	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Beryllium	0.334	B	0.232	0.012	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Cadmium	0.101	J	0.232	0.046	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Calcium	1970		58.0	11.6	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Chromium	7.69		0.580	0.104	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Cobalt	6.86		0.580	0.058	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Copper	16.0		1.2	0.1	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Iron	15300		11.6	3.5	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Lead	5.5		1.2	0.1	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Magnesium	2790	B	23.2	1.1	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Manganese	210	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Nickel	13.4		5.80	0.093	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Potassium	1260		34.8	5.6	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Selenium	ND		4.6	0.7	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Silver	ND		0.580	0.081	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Sodium	144	J	162	36.0	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Thallium	0.3	J	7.0	0.3	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Vanadium	14.0		0.580	0.046	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Zinc	38.7	B	2.3	0.2	mg/kg dry	1.00	10/20/09 22:12	DAN	9J15055	6010B
Mercury	ND		0.0221	0.0089	mg/kg dry	1.00	10/20/09 15:21	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:38	JR	9J12049	Dry Weight
Cyanide	0.8	J	1.0	0.5	mg/kg dry	1.00	10/16/08 09:27	LRM	9J14035	9012A

A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattori Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-05 (S5 - Solid)

Sampled: 10/06/09 12:15 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		5.3	0.39	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.3	0.86	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.3	0.27	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	2.7	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.3	0.26	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.3	0.65	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.3	0.56	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.3	2.7	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.3	0.20	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.3	0.41	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.3	0.27	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.3	2.7	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.3	0.27	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.3	0.74	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,4-Dioxane	ND		210	26	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
2-Butanone (MEK)	ND		27	1.9	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
2-Hexanone	ND		27	1.8	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.7	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Benzene	ND		5.3	0.26	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Bromochloromethane	ND		5.3	0.38	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Bromodichloromethane	ND		5.3	0.27	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Bromoform	ND		5.3	2.7	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Bromomethane	ND		5.3	1.2	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Carbon disulfide	ND		5.3	0.46	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.3	0.51	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Chlorobenzene	ND		5.3	0.70	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Dibromochloromethane	ND		5.3	0.29	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Chloroethane	ND		5.3	2.2	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Chloroform	ND		5.3	0.33	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Chloromethane	ND		5.3	0.32	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
cis-1,2-Dichloroethane	ND		5.3	0.26	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.3	0.30	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Cyclohexane	2.1	J	5.3	0.24	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.3	0.44	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Ethylbenzene	ND		5.3	0.37	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Isopropylbenzene	ND		5.3	0.80	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Methyl Acetate	ND		5.3	0.29	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.3	0.52	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Methylcyclohexane	ND		5.3	0.34	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Methylene Chloride	1.5	J	5.3	1.1	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		11	0.89	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
o-Xylene	ND		5.3	0.69	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Styrene	ND		5.3	0.27	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Tetrachloroethene	ND		5.3	0.71	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Toluene	ND		5.3	0.40	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B

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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-05 (S5 - Solid) - cont.						Sampled: 10/06/09 12:15 Recvd: 10/09/09 09:20				

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.3	0.55	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.3	0.26	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Trichloroethene	ND		5.3	0.37	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.3	0.50	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.65	ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
1,2-Dichloroethane-d4	97 %		Surr Limits: (64-126%)				10/10/09 21:14	PQ	9J10019	8260B
4-Bromofluorobenzene	114 %		Surr Limits: (72-126%)				10/10/09 21:14	PQ	9J10019	8260B
Toluene-d8	115 %		Surr Limits: (71-125%)				10/10/09 21:14	PQ	9J10019	8260B

#### Tentatively Identified Compounds by EPA 8260B

Unknown01 (none)	5.3	T7	Ret Time: 8.385		ug/kg dry	1.00	10/10/09 21:14	PQ	9J10019	8260B
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#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND	D10	880	80	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND	D10	880	880	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND	D10	880	190	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND	D10	880	58	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,4-Dichlorophenol	ND	D10	880	46	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,4-Dimethylphenol	ND	D10	880	240	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,4-Dinitrophenol	ND	D10	1700	310	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND	D10	880	140	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND	D10	880	210	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2-Chloronaphthalene	ND	D10	880	59	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2-Chlorophenol	ND	D10	880	45	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2-Methylnaphthalene	ND	D10	880	11	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2-Methylphenol	ND	D10	880	27	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2-Nitroaniline	ND	D10	1700	280	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
2-Nitrophenol	ND	D10	880	40	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND	D10	880	770	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
3-Nitroaniline	ND	D10	1700	200	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND	D10	1700	300	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND	D10	880	280	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND	D10	880	36	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Chloroaniline	ND	D10	880	260	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND	D10	880	19	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Methylphenol	ND	D10	1700	49	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Nitroaniline	ND	D10	1700	98	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
4-Nitrophenol	ND	D10	1700	210	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Acenaphthene	ND	D10	880	10	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Acenaphthylene	ND	D10	880	7.2	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Acetophenone	ND	D10	880	45	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Anthracene	ND	D10	880	22	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Alrazine	ND	D10	880	39	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Benzaldehyde	ND	D10	880	96	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Benzo[a]anthracene	67	D10,J	880	15	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C
Benzo[a]pyrene	61	D10,J	880	21	ug/kg dry	5.00	10/16/09 12:53	MKP	9J13065	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattori Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-05 (S5 - Solid) - cont.

Sampled: 10/06/09 12:15 Recvd: 10/09/09 09:20

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	76	D10,J	880	17	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Benzo[g,h,i]perylene	43	D10,J	880	11	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND	D10	880	9.6	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
1,1'-Biphenyl	ND	D10	880	55	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND	D10	880	48	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND	D10	880	76	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropyl)ane	ND	D10	880	91	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND	D10	880	280	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Butyl benzyl phthalate	ND	D10	880	240	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Caprolactam	ND	D10	880	380	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Carbazole	ND	D10	880	10	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Chrysene	54	D10,J	880	8.8	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND	D10	880	10	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Dibenzofuran	ND	D10	880	9.1	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Diethyl phthalate	ND	D10	880	26	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Dimethyl phthalate	ND	D10	880	23	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Di-n-butyl phthalate	ND	D10	880	300	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Di-n-octyl phthalate	ND	D10	880	20	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Fluoranthene	ND	D10	880	13	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Fluorene	ND	D10	880	20	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Hexachlorobenzene	ND	D10	880	43	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Hexachlorobutadiene	ND	D10	880	45	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND	D10	880	260	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Hexachloroethane	ND	D10	880	68	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND	D10	880	24	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Isophorone	ND	D10	880	44	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Naphthalene	ND	D10	880	15	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Nitrobenzene	ND	D10	880	39	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
N-Nitrosodl-n-propylamine	ND	D10	880	69	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND	D10	880	48	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Pentachlorophenol	ND	D10	1700	300	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Phenanthrene	41	D10,J	880	18	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Phenol	ND	D10	880	92	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
Pyrene	83	D10,J	880	5.7	ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
2,4,6-Tribromophenol	86 %	D10	Surr Limits: (39-146%)				10/16/09 12:53 MKP	9J13065	8270C
2-Fluorobiphenyl	97 %	D10	Surr Limits: (37-120%)				10/16/09 12:53 MKP	9J13065	8270C
2-Fluorophenol	68 %	D10	Surr Limits: (18-120%)				10/16/09 12:53 MKP	9J13065	8270C
Nitrobenzene-d5	84 %	D10	Surr Limits: (34-132%)				10/16/09 12:53 MKP	9J13065	8270C
Phenol-d5	84 %	D10	Surr Limits: (11-120%)				10/16/09 12:53 MKP	9J13065	8270C
p-Terphenyl-d14	101 %	D10	Surr Limits: (58-147%)				10/16/09 12:53 MKP	9J13065	8270C

#### Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND	D10		ug/kg dry	5.00	10/16/09 12:53 MKP	9J13065	8270C
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#### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	0.70	QFL,J	1.8	0.34	ug/kg dry	1.00	10/19/09 16:56 DGB	9J10008	8081A
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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-05 (S5 - Solid) - cont.						Sampled: 10/06/09 12:15 Recvd: 10/09/09 09:20				

### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	0.66	QFL,J	1.8	0.51	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
4,4'-DDT [2C]	1.6	QFL,J	1.8	0.40	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.8	0.18	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	1.8	0.32	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
alpha-Chlordane [2C]	0.93	QFL,J	1.8	0.88	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
delta-BHC [2C]	0.91	QFL,J	1.8	0.23	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Dieldrin [2C]	0.67	QFL,J	1.8	0.42	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.38	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL,C4	1.8	0.32	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Endrin [2C]	ND	QFL,C4	1.8	0.57	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL,C4	1.8	0.45	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.44	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.8	0.31	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.86	QFL,C4, J	1.8	0.24	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.8	0.28	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.46	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL,C4	1.8	0.47	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	18	10	ug/kg dry	1.00	10/19/09 16:56	DGB	9J10008	8081A
Decachlorobiphenyl [2C]	81 %	QFL	Surr Limits: (42-146%)				10/19/09 16:56	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	71 %	QFL	Surr Limits: (37-136%)				10/19/09 16:56	DGB	9J10008	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		18	3.4	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1221	ND		18	3.4	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1232	ND		18	3.4	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1242	ND		18	3.8	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1248	ND		18	3.5	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1254	ND		18	3.7	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1260	ND		18	3.7	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1262	ND		18	3.7	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Aroclor 1268	ND		18	3.7	ug/kg dry	1.00	10/18/09 17:49	SCH	9J16100	8082
Decachlorobiphenyl	98 %		Surr Limits: (34-148%)				10/18/09 17:49	SCH	9J16100	8082
Tetrachloro-m-xylene	88 %		Surr Limits: (35-134%)				10/18/09 17:49	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	9150		10.6	1.3	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Antimony	ND		15.9	0.6	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Arsenic	3.1	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Barium	46.3		0.531	0.028	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Beryllium	0.436	B	0.212	0.011	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Cadmium	0.169	J	0.212	0.042	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Calcium	36300		53.1	10.6	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Chromium	9.73		0.531	0.096	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Cobalt	6.84		0.531	0.053	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Copper	12.4		1.1	0.1	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Iron	15800		10.6	3.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-05 (S5 - Solid) - cont.						Sampled: 10/06/09 12:15    Recvd: 10/09/09 09:20				
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Lead	8.1		1.1	0.1	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Magnesium	22200	B	21.2	1.0	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Manganese	493	B1, B	0.2	0.03	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Nickel	12.5		5.31	0.085	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Potassium	1190		31.8	5.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Selenium	ND		4.2	0.6	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Silver	ND		0.531	0.074	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Sodium	127	J	149	32.9	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Thallium	ND		6.4	0.3	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Vanadium	16.0		0.531	0.042	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Zinc	62.7	B	2.1	0.2	mg/kg dry	1.00	10/20/09 22:17	DAN	9J15055	6010B
Mercury	0.0090	J	0.0217	0.0088	mg/kg dry	1.00	10/20/09 15:23	MXM	9J19064	7471A
<u>General Chemistry Parameters</u>										
Percent Solids	94		0.010	NR	%	1.00	10/12/09 15:40	JR	9J12048	Dry Weight
Cyanide	ND		1.0	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

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Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-06 (S6 - Solid)						Sampled: 10/06/09 12:30		Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		5.7	0.41	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.7	0.93	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	2.9	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.7	0.70	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.7	0.61	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.7	0.35	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.7	2.9	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.7	0.22	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.7	0.45	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.7	2.9	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.7	0.80	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,4-Dioxane	ND		230	27	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
2-Butanone (MEK)	ND		29	2.1	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
2-Hexanone	ND		29	2.0	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		29	1.8	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Acetone	ND		29	1.3	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Benzene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Bromochloromethane	ND		5.7	0.41	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Bromodichloromethane	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Bromoform	ND		5.7	2.9	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Bromomethane	ND		5.7	1.3	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Carbon disulfide	ND		5.7	0.49	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.7	0.55	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Chlorobenzene	ND		5.7	0.75	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Dibromochloromethane	ND		5.7	0.31	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Chloroethane	ND		5.7	2.4	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Chloroform	ND		5.7	0.35	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Chloromethane	ND		5.7	0.34	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.7	0.33	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Cyclohexane	ND		5.7	0.26	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.7	0.47	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Ethylbenzene	ND		5.7	0.39	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Isopropylbenzene	ND		5.7	0.86	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Methyl Acetate	ND		5.7	0.31	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.7	0.56	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Methylcyclohexane	ND		5.7	0.37	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Methylene Chloride	1.7	J	5.7	1.1	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		11	0.96	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
o-Xylene	ND		5.7	0.75	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Styrene	ND		5.7	0.29	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Tetrachloroethene	ND		5.7	0.77	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Toluene	ND		5.7	0.43	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B

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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clablattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-06 (S6 - Solid) - cont.						Sampled: 10/06/09 12:30		Recvd: 10/09/09 09:20		

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.7	0.59	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.7	0.28	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Trichloroethene	ND		5.7	0.39	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.7	0.54	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.70	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
1,2-Dichloroethane-d4	100 %		Surr Limits: (64-126%)				10/10/09 21:39	PQ	9J10019	8260B
4-Bromofluorobenzene	114 %		Surr Limits: (72-126%)				10/10/09 21:39	PQ	9J10019	8260B
Toluene-d8	115 %		Surr Limits: (71-125%)				10/10/09 21:39	PQ	9J10019	8260B

#### Tentatively Identified Compounds by EPA 8260B

Unknown01 (none)	730	T7	Ret Time: 1.249	ug/kg dry	1.00	10/10/09 21:39	PQ	9J10019	8260B
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#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		190	18	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND		190	190	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND		190	42	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND		190	13	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,4-Dichlorophenol	ND		190	10	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,4-Dimethylphenol	ND		190	52	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,4-Dinitrophenol	ND		380	67	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND		190	30	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND		190	47	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2-Chloronaphthalene	ND		190	13	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2-Chlorophenol	ND		190	9.8	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2-Methylnaphthalene	ND		190	2.3	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2-Methylphenol	ND		190	5.9	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2-Nitroaniline	ND		380	62	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
2-Nitrophenol	ND		190	8.8	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND		190	170	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
3-Nitroaniline	ND		380	44	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND		380	67	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND		190	61	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND		190	7.9	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Chloroaniline	ND		190	57	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND		190	4.1	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Methylphenol	ND		380	11	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Nitroaniline	ND		380	22	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
4-Nitrophenol	ND		380	47	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Acenaphthene	ND		190	2.3	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Acenaphthylene	ND		190	1.6	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Acetophenone	ND		190	9.9	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Anthracene	ND		190	4.9	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Atrazine	ND		190	8.6	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Benzaldehyde	ND		190	21	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Benzo[a]anthracene	ND		190	3.3	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C
Benzo[a]pyrene	ND		190	4.6	ug/kg dry	1.00	10/15/09 23:10	MKP	9J13065	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattori Brownfield Site  
Project Number: 48001559-2

# Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-06 (S6 - Solid) - cont.

Sampled: 10/06/09 12:30 Recvd: 10/09/09 09:20

## Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		190	3.7	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Benzo[g,h,i]perylene	ND		190	2.3	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND		190	2.1	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
1,1'-Biphenyl	ND		190	12	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND		190	10	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND		190	17	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND		190	20	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND		190	62	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Butyl benzyl phthalate	ND		190	52	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Caprolactam	ND		190	83	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Carbazole	ND		190	2.2	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Chrysene	ND		190	1.9	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND		190	2.3	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Dibenzofuran	ND		190	2.0	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Diethyl phthalate	ND		190	5.8	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Dimethyl phthalate	ND		190	5.0	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Di-n-butyl phthalate	ND		190	67	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Di-n-octyl phthalate	ND		190	4.5	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Fluoranthene	ND		190	2.8	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Fluorene	ND		190	4.4	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Hexachlorobenzene	ND		190	9.6	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Hexachlorobutadiene	ND		190	9.9	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND		190	58	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Hexachloroethane	ND		190	15	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND		190	5.3	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Isophorone	ND		190	9.6	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Naphthalene	ND		190	3.2	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Nitrobenzene	ND		190	8.5	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND		190	15	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND		190	11	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Pentachlorophenol	ND		380	66	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Phenanthrene	ND		190	4.0	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Phenol	ND		190	20	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
Pyrene	ND		190	1.2	ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
2,4,6-Tribromophenol	82 %		Surr Limits: (39-146%)				10/15/09 23:10 MKP	9J13065	8270C
2-Fluorobiphenyl	78 %		Surr Limits: (37-120%)				10/15/09 23:10 MKP	9J13065	8270C
2-Fluorophenol	60 %		Surr Limits: (18-120%)				10/15/09 23:10 MKP	9J13065	8270C
Nitrobenzene-d5	73 %		Surr Limits: (34-132%)				10/15/09 23:10 MKP	9J13065	8270C
Phenol-d5	65 %		Surr Limits: (11-120%)				10/15/09 23:10 MKP	9J13065	8270C
p-Terphenyl-d14	84 %		Surr Limits: (58-147%)				10/15/09 23:10 MKP	9J13065	8270C

## Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND				ug/kg dry	1.00	10/15/09 23:10 MKP	9J13065	8270C
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## Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.9	0.37	ug/kg dry	1.00	10/16/09 09:47 DGB	9J10008	8081A
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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-06 (S6 - Solid) - cont.						Sampled: 10/06/09 12:30 Recvd: 10/09/09 09:20				

### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	ND	QFL	1.9	0.55	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
4,4'-DDT [2C]	1.1	QFL,J	1.9	0.43	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.9	0.19	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
alpha-BHC [2C]	0.88	QFL,J	1.9	0.34	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.9	0.94	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.9	1.4	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
delta-BHC [2C]	0.92	QFL,J	1.9	0.25	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	1.9	0.45	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.9	0.40	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL	1.9	0.34	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL,C	1.9	0.35	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Endrin [2C]	ND	QFL	1.9	0.61	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL	1.9	0.48	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.9	0.47	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	0.58	QFL,J	1.9	0.33	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.30	QFL,J	1.9	0.26	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.9	0.30	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.9	0.49	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL	1.9	0.51	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	19	11	ug/kg dry	1.00	10/16/09 09:47	DGB	9J10008	8081A
Decachlorobiphenyl [2C]	85 %	QFL	Surr Limits: (42-146%)				10/16/09 09:47	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	79 %	QFL	Surr Limits: (37-136%)				10/16/09 09:47	DGB	9J10008	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1221	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1232	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1242	ND		19	4.0	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1248	ND		19	3.7	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1254	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1260	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1262	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Aroclor 1268	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:03	SCH	9J16100	8082
Decachlorobiphenyl	104 %		Surr Limits: (34-148%)				10/18/09 18:03	SCH	9J16100	8082
Tetrachloro-m-xylene	85 %		Surr Limits: (35-134%)				10/18/09 18:03	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	11900		10.8	1.4	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Antimony	ND		16.1	0.6	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Arsenic	2.9	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Barium	61.0		0.538	0.028	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Beryllium	0.498	B	0.215	0.011	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Cadmium	0.088	J	0.215	0.043	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Calcium	1520		53.8	10.8	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Chromium	13.7		0.538	0.097	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Cobalt	7.28		0.538	0.054	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Copper	19.0		1.1	0.1	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Iron	18900		10.8	3.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B

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10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-06 (S6 - Solid) - cont.

Sampled: 10/06/09 12:30 Recvd: 10/09/09 09:20

### Total Metals by SW 846 Series Methods - cont.

Lead	5.2		1.1	0.1	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Magnesium	3450	B	21.5	1.0	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Manganese	330	B1, B	0.2	0.03	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Nickel	13.5		5.38	0.086	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Potassium	1480		32.3	5.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Selenium	ND		4.3	0.6	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Silver	ND		0.538	0.075	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Sodium	201		151	33.4	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Thallium	ND		6.5	0.3	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Vanadium	22.2		0.538	0.043	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Zinc	36.2	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:22	DAN	9J15055	6010B
Mercury	0.0101	J	0.0216	0.0087	mg/kg dry	1.00	10/20/09 15:25	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	87		0.010	NR	%	1.00	10/12/09 15:42	JR	9J12049	Dry Weight
Cyanide	ND		1.1	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-07 (S7 - Solid)						Sampled: 10/06/09 11:15		Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		5.4	0.39	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		5.4	2.7	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.4	0.66	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.4	0.57	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.4	2.7	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.4	0.21	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.4	0.42	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.4	2.7	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.4	0.28	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.4	0.76	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,4-Dioxane	ND		220	26	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
2-Butanone (MEK)	8.2	J	27	2.0	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Acetone	39		27	1.2	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene	1.9	J	5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Bromochloromethane	ND		5.4	0.39	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Bromodichloromethane	ND		5.4	0.28	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Bromoform	ND		5.4	2.7	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Bromomethane	ND		5.4	1.2	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Carbon disulfide	ND		5.4	0.46	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.4	0.52	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Chlorobenzene	ND		5.4	0.71	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Dibromochloromethane	ND		5.4	0.30	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Chloroethane	ND		5.4	2.3	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Chloroform	ND		5.4	0.33	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Chloromethane	ND		5.4	0.33	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.4	0.31	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Cyclohexane	ND		5.4	0.25	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.4	0.45	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Ethylbenzene	140		5.4	0.37	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Isopropylbenzene	33		5.4	0.82	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Methyl Acetate	ND		5.4	0.29	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.4	0.53	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Methylcyclohexane	61		5.4	0.35	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Methylene Chloride	3.1	J	5.4	1.1	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
m-Xylene & p-Xylene	130		11	0.91	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
o-Xylene	9.5		5.4	0.71	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Styrene	ND		5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Tetrachloroethene	ND		5.4	0.73	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Toluene	3.4	J	5.4	0.41	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabottoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-07 (S7 - Solid) - cont.						Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20				

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.4	0.56	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.4	0.27	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Trichloroethane	ND		5.4	0.37	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.4	0.51	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.66	ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
1,2-Dichloroethane-d4	98 %		Surr Limits: (64-126%)				10/10/09 22:04	PQ	9J10019	8260B
4-Bromofluorobenzene	108 %		Surr Limits: (72-126%)				10/10/09 22:04	PQ	9J10019	8260B
Toluene-d8	113 %		Surr Limits: (71-125%)				10/10/09 22:04	PQ	9J10019	8260B

#### Tentatively Identified Compounds by EPA 8260B

1H-Indene, 2,3-dihydro-4-methyl- (000824-22-6)	77	T7	Ret Time: 10.77		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 1,2,3,5-tetramethyl- (000527-53-7)	97	T7	Ret Time: 10.49		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 1,2,3-trimethyl- (01) (000526-73-8)	300	T7	Ret Time: 9.036		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 1,2,3-trimethyl- (02) (000526-73-8)	98	T7	Ret Time: 9.486		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 1-ethenyl-2-methyl- (000611-15-4)	180	T7	Ret Time: 8.687		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 1-ethyl-2-methyl- (01) (000611-14-3)	98	T7	Ret Time: 8.561		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 1-ethyl-2-methyl- (02) (000611-14-3)	120	T7	Ret Time: 8.847		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Benzene, 4-ethyl-1,2-dimethyl- (000934-80-5)	140	T7	Ret Time: 10.131		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Indan, 1-methyl- (000767-58-8)	95	T7	Ret Time: 10.234		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B
Unknown01 (none)	160	T7	Ret Time: 10.903		ug/kg dry	1.00	10/10/09 22:04	PQ	9J10019	8260B

#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND	D10	1900	170	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND	D10	1900	1900	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND	D10	1900	400	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND	D10	1900	120	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,4-Dichlorophenol	ND	D10	1900	97	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,4-Dimethylphenol	ND	D10	1900	500	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,4-Dinitrophenol	ND	D10	3600	650	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND	D10	1900	290	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND	D10	1900	450	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2-Chloronaphthalene	ND	D10	1900	120	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2-Chlorophenol	ND	D10	1900	94	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2-Methylnaphthalene	310	D10,J	1900	22	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2-Methylphenol	ND	D10	1900	57	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2-Nitroaniline	ND	D10	3600	590	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
2-Nitrophenol	ND	D10	1900	85	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND	D10	1900	1600	ug/kg dry	10.0	10/16/09 13:18	MKP	9J13065	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonolosa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

# Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DIL Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-07 (S7 - Solid) - cont.

Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20

## Semivolatile Organics by GC/MS - cont.

3-Nitroaniline	ND	D10	3600	430	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND	D10	3600	640	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND	D10	1900	590	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND	D10	1900	76	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Chloroaniline	ND	D10	1900	540	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND	D10	1900	40	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Methylphenol	ND	D10	3600	100	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Nitroaniline	ND	D10	3600	210	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
4-Nitrophenol	ND	D10	3600	450	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Acenaphthene	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Acenaphthylene	ND	D10	1900	15	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Acetophenone	ND	D10	1900	95	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Anthracene	ND	D10	1900	47	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Atrazine	ND	D10	1900	83	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Benzaldehyde	ND	D10	1900	200	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Benzo[a]anthracene	150	D10,J	1900	32	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Benzo[a]pyrene	100	D10,J	1900	45	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Benzo[b]fluoranthene	120	D10,J	1900	36	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Benzo[g,h,i]perylene	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND	D10	1900	20	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
1,1'-Biphenyl	ND	D10	1900	120	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND	D10	1900	100	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND	D10	1900	160	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D10	1900	190	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND	D10	1900	600	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Butyl benzyl phthalate	ND	D10	1900	500	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Caprolactam	ND	D10	1900	800	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Carbazole	ND	D10	1900	21	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Chrysene	100	D10,J	1900	19	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Dibenzofuran	ND	D10	1900	19	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Diethyl phthalate	ND	D10	1900	56	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Dimethyl phthalate	ND	D10	1900	48	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Di-n-butyl phthalate	ND	D10	1900	640	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Di-n-octyl phthalate	ND	D10	1900	43	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Fluoranthene	160	D10,J	1900	27	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Fluorene	ND	D10	1900	43	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Hexachlorobenzene	ND	D10	1900	92	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Hexachlorobutadiene	ND	D10	1900	95	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND	D10	1900	560	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Hexachloroethane	ND	D10	1900	140	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND	D10	1900	51	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Isophorone	ND	D10	1900	93	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Naphthalene	150	D10,J	1900	31	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-07 (S7 - Solid) - cont.						Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20				

### Semivolatile Organics by GC/MS - cont.

Nitrobenzene	ND	D10	1900	82	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND	D10	1900	150	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND	D10	1900	100	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Pentachlorophenol	ND	D10	3600	640	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Phenanthrene	88	D10,J	1900	39	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Phenol	ND	D10	1900	200	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
Pyrene	190	D10,J	1900	12	ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
2,4,6-Tribromophenol	79 %	D10	Surr Limits: (39-146%)				10/16/09 13:18 MKP	9J13065	8270C
2-Fluorobiphenyl	84 %	D10	Surr Limits: (37-120%)				10/16/09 13:18 MKP	9J13065	8270C
2-Fluorophenol	54 %	D10	Surr Limits: (18-120%)				10/16/09 13:18 MKP	9J13065	8270C
Nitrobenzene-d5	71 %	D10	Surr Limits: (34-132%)				10/16/09 13:18 MKP	9J13065	8270C
Phenol-d5	66 %	D10	Surr Limits: (11-120%)				10/16/09 13:18 MKP	9J13065	8270C
p-Terphenyl-d14	100 %	D10	Surr Limits: (58-147%)				10/16/09 13:18 MKP	9J13065	8270C

### Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND	D10			ug/kg dry	10.0	10/16/09 13:18 MKP	9J13065	8270C
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### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	1.1	QFL,J	1.8	0.35	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
4,4'-DDE [2C]	2.0	QFL	1.8	0.53	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
4,4'-DDT [2C]	2.4	QFL	1.8	0.42	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.8	0.19	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
alpha-BHC [2C]	0.95	QFL,J	1.8	0.33	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
alpha-Chlordane [2C]	1.1	QFL,J	1.8	0.91	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
delta-BHC [2C]	0.85	QFL,J	1.8	0.24	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Dieldrin [2C]	0.77	QFL,J	1.8	0.44	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.39	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL,C4	1.8	0.33	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL	1.8	0.34	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Endrin [2C]	ND	QFL,C4	1.8	0.59	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL,C4	1.8	0.47	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.45	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.8	0.32	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
gamma-Chlordane [2C]	1.2	QFL,C4, J	1.8	0.25	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.8	0.29	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL,C4	1.8	0.49	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	18	11	ug/kg dry	1.00	10/19/09 17:32 DGB	9J10008	8081A
Decachlorobiphenyl [2C]	73 %	QFL	Surr Limits: (42-146%)				10/19/09 17:32 DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	69 %	QFL	Surr Limits: (37-136%)				10/19/09 17:32 DGB	9J10008	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND	QSU	18	3.5	ug/kg dry	1.00	10/18/09 18:18 SCH	9J16100	8082
Aroclor 1221	ND	QSU	18	3.5	ug/kg dry	1.00	10/18/09 18:18 SCH	9J16100	8082
Aroclor 1232	ND	QSU	18	3.5	ug/kg dry	1.00	10/18/09 18:18 SCH	9J16100	8082
Aroclor 1242	ND	QSU	18	3.9	ug/kg dry	1.00	10/18/09 18:18 SCH	9J16100	8082

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-07 (S7 - Solid) - cont.

Sampled: 10/06/09 11:15 Recvd: 10/09/09 09:20

### Polychlorinated Biphenyls by EPA Method 8082 - cont.

Aroclor 1248	37	QSU	18	3.5	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082
Aroclor 1254	ND	QSU	18	3.8	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082
Aroclor 1260	5.5	QSU,J	18	3.8	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082
Aroclor 1262	ND	QSU	18	3.8	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082
Aroclor 1268	ND	QSU	18	3.8	ug/kg dry	1.00	10/18/09 18:18	SCH	9J16100	8082

Decachlorobiphenyl	84 %	QSU	Surr Limits: (34-148%)				10/18/09 18:18	SCH	9J16100	8082
Tetrachloro-m-xylene	111 %	QSU	Surr Limits: (35-134%)				10/18/09 18:18	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	9510		11.0	1.4	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Antimony	ND		16.5	0.6	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Arsenic	3.0	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Barium	46.2		0.549	0.029	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Beryllium	0.382	B	0.220	0.011	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Cadmium	0.121	J	0.220	0.044	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Calcium	6330		54.9	11.0	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Chromium	8.32		0.549	0.099	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Cobalt	8.93		0.549	0.055	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Copper	38.8		1.1	0.1	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Iron	24100		11.0	3.3	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Lead	12.3		1.1	0.1	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Magnesium	5550	B	22.0	1.0	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Manganese	320	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Nickel	11.8		5.49	0.088	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Potassium	1170		32.9	5.3	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Selenium	ND		4.4	0.6	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Silver	ND		0.549	0.077	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Sodium	176		154	34.0	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Thallium	ND		6.6	0.3	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Vanadium	31.6		0.549	0.044	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Zinc	51.6	B	2.2	0.2	mg/kg dry	1.00	10/20/09 22:27	DAN	9J15055	6010B
Mercury	0.0112	J	0.0215	0.0087	mg/kg dry	1.00	10/20/09 15:28	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:44	JR	9J12049	Dry Weight
Cyanide	ND		1.1	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-08 (S8 - Solid)						Sampled: 10/06/09 15:45		Recvd: 10/09/09 09:20		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.8	0.42	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.8	0.95	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.8	2.9	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.8	0.71	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.8	0.62	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.8	0.35	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.8	2.9	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.8	0.22	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.8	0.46	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.8	2.9	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.8	0.30	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.8	0.82	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,4-Dioxane	ND		230	28	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
2-Butanone (MEK)	ND		29	2.1	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
2-Hexanone	ND		29	2.0	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		29	1.9	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Acetone	ND		29	1.3	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Benzene	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Bromochloromethane	ND		5.8	0.42	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Bromodichloromethane	ND		5.8	0.30	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Bromoform	ND		5.8	2.9	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Bromomethane	ND		5.8	1.3	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Carbon disulfide	ND		5.8	0.50	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.8	0.56	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Chlorobenzene	ND		5.8	0.77	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Dibromochloromethane	ND		5.8	0.32	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Chloroethane	ND		5.8	2.4	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Chloroform	ND		5.8	0.36	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Chloromethane	ND		5.8	0.35	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.8	0.33	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Cyclohexane	ND		5.8	0.27	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.8	0.48	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Ethylbenzene	ND		5.8	0.40	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Isopropylbenzene	ND		5.8	0.88	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Methyl Acetate	ND		5.8	0.32	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.8	0.57	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Methylcyclohexane	ND		5.8	0.38	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Methylene Chloride	1.7	J	5.8	1.2	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		12	0.98	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
o-Xylene	ND		5.8	0.76	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Styrene	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Tetrachloroethene	ND		5.8	0.78	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Toluene	ND		5.8	0.44	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B

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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DIL Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-08 (S8 - Solid) - cont.

Sampled: 10/06/09 15:45

Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.8	0.60	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.8	0.29	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Trichloroethene	ND		5.8	0.40	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.8	0.55	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
Vinyl chloride	ND		12	0.71	ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
1,2-Dichloroethane-d4	99 %		Surr Limits: (64-126%)				10/10/09 22:30	PQ	9J10019	8260B
4-Bromofluorobenzene	113 %		Surr Limits: (72-126%)				10/10/09 22:30	PQ	9J10019	8260B
Toluene-d8	113 %		Surr Limits: (71-125%)				10/10/09 22:30	PQ	9J10019	8260B

### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/kg dry	1.00	10/10/09 22:30	PQ	9J10019	8260B
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### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND	D10	2000	180	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND	D10	2000	2000	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND	D10	2000	430	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND	D10	2000	130	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,4-Dichlorophenol	ND	D10	2000	100	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,4-Dimethylphenol	ND	D10	2000	540	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,4-Dinitrophenol	ND	D10	3900	700	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND	D10	2000	310	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND	D10	2000	490	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2-Chloronaphthalene	ND	D10	2000	130	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2-Chlorophenol	ND	D10	2000	100	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2-Methylnaphthalene	ND	D10	2000	24	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2-Methylphenol	ND	D10	2000	61	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2-Nitroaniline	ND	D10	3900	640	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
2-Nitrophenol	ND	D10	2000	91	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND	D10	2000	1700	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
3-Nitroaniline	ND	D10	3900	460	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND	D10	3900	690	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND	D10	2000	630	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND	D10	2000	82	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Chloroaniline	ND	D10	2000	580	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND	D10	2000	42	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Methylphenol	ND	D10	3900	110	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Nitroaniline	ND	D10	3900	220	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
4-Nitrophenol	ND	D10	3900	480	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Acenaphthene	ND	D10	2000	23	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Acenaphthylene	ND	D10	2000	16	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Acetophenone	ND	D10	2000	100	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Anthracene	ND	D10	2000	51	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Atrazine	ND	D10	2000	88	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Benzaldehyde	ND	D10	2000	220	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Benzo[a]anthracene	120	D10,J	2000	34	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C
Benzo[a]pyrene	ND	D10	2000	48	ug/kg dry	10.0	10/16/09 13:42	MKP	9J13065	8270C

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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-08 (S8 - Solid) - cont.						Sampled: 10/06/09 15:45 Recvd: 10/09/09 09:20				

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	100	D10,J	2000	39	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Benzo[g,h,i]perylene	ND	D10	2000	24	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND	D10	2000	22	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
1,1'-Biphenyl	ND	D10	2000	120	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND	D10	2000	110	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND	D10	2000	170	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D10	2000	210	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND	D10	2000	640	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Butyl benzyl phthalate	ND	D10	2000	530	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Caprolactam	ND	D10	2000	860	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Carbazole	ND	D10	2000	23	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Chrysene	ND	D10	2000	20	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND	D10	2000	23	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Dibenzofuran	ND	D10	2000	21	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Diethyl phthalate	ND	D10	2000	60	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Dimethyl phthalate	ND	D10	2000	52	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Di-n-butyl phthalate	ND	D10	2000	690	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Di-n-octyl phthalate	ND	D10	2000	46	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Fluoranthene	ND	D10	2000	29	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Fluorene	ND	D10	2000	46	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Hexachlorobenzene	ND	D10	2000	99	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Hexachlorobutadiene	ND	D10	2000	100	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND	D10	2000	600	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Hexachloroethane	ND	D10	2000	150	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND	D10	2000	55	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Isophorone	ND	D10	2000	99	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Naphthalene	ND	D10	2000	33	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Nitrobenzene	ND	D10	2000	88	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND	D10	2000	160	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND	D10	2000	110	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Pentachlorophenol	ND	D10	3900	680	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Phenanthrene	ND	D10	2000	42	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Phenol	ND	D10	2000	210	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
Pyrene	110	D10,J	2000	13	ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
2,4,6-Tribromophenol	66 %	D10	Surr Limits: (39-146%)				10/16/09 13:42 MKP	9J13065	8270C
2-Fluorobiphenyl	83 %	D10	Surr Limits: (37-120%)				10/16/09 13:42 MKP	9J13065	8270C
2-Fluorophenol	63 %	D10	Surr Limits: (18-120%)				10/16/09 13:42 MKP	9J13065	8270C
Nitrobenzene-d5	71 %	D10	Surr Limits: (34-132%)				10/16/09 13:42 MKP	9J13065	8270C
Phenol-d5	70 %	D10	Surr Limits: (11-120%)				10/16/09 13:42 MKP	9J13065	8270C
p-Terphenyl-d14	83 %	D10	Surr Limits: (58-147%)				10/16/09 13:42 MKP	9J13065	8270C

#### Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND	D10			ug/kg dry	10.0	10/16/09 13:42 MKP	9J13065	8270C
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#### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	2.0	0.38	ug/kg dry	1.00	10/19/09 18:08 DGB	9J10008	8081A
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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-08 (S8 - Solid) - cont.						Sampled: 10/06/09 15:45 Recvd: 10/09/09 09:20				

### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	0.59	QFL,J	2.0	0.57	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
4,4'-DDT [2C]	1.1	QFL,J	2.0	0.45	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	2.0	0.20	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	2.0	0.36	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	2.0	0.99	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	2.0	1.4	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
delta-BHC [2C]	0.99	QFL,J	2.0	0.26	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	2.0	0.48	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	2.0	0.42	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL,C4	2.0	0.36	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL	2.0	0.37	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Endrin [2C]	ND	QFL,C4	2.0	0.64	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL,C4	2.0	0.51	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	2.0	0.49	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	2.0	0.34	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.52	QFL,C4, J	2.0	0.27	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	2.0	0.31	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	2.0	0.51	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL,C4	2.0	0.53	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	20	12	ug/kg dry	1.00	10/19/09 18:08	DGB	9J10008	8081A
Decachlorobiphenyl [2C]	93 %	QFL	Surr Limits: (42-146%)				10/19/09 18:08	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	85 %	QFL	Surr Limits: (37-136%)				10/19/09 18:08	DGB	9J10008	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		20	3.8	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1221	ND		20	3.8	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1232	ND		20	3.8	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1242	ND		20	4.2	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1248	ND		20	3.8	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1254	ND		20	4.1	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1260	ND		20	4.1	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1262	ND		20	4.1	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Aroclor 1268	ND		20	4.1	ug/kg dry	1.00	10/18/09 18:32	SCH	9J16100	8082
Decachlorobiphenyl	83 %		Surr Limits: (34-148%)				10/18/09 18:32	SCH	9J16100	8082
Tetrachloro-m-xylene	86 %		Surr Limits: (35-134%)				10/18/09 18:32	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	9460		11.5	1.4	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Antimony	ND		17.3	0.8	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Arsenic	3.9	B	2.3	0.3	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Barium	55.4		0.575	0.030	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Beryllium	0.419	B	0.230	0.012	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Cadmium	0.169	J	0.230	0.046	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Calcium	10700		57.5	11.5	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Chromium	12.0		0.575	0.104	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Cobalt	7.90		0.575	0.058	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Copper	20.0		1.2	0.1	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Iron	18700		11.5	3.5	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonolosa, FL 33592

Work Order: RSJ0643

Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-08 (S8 - Solid) - cont.

Sampled: 10/06/09 15:45 Recvd: 10/09/09 09:20

### Total Metals by SW 846 Series Methods - cont.

Lead	7.0		1.2	0.1	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Magnesium	4450	B	23.0	1.1	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Manganese	700	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Nickel	16.8		5.75	0.092	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Potassium	1320		34.5	5.6	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Selenium	ND		4.8	0.7	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Silver	ND		0.575	0.081	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Sodium	120	J	161	35.7	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Thallium	0.5	J	6.9	0.3	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Vanadium	17.2		0.575	0.046	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Zinc	45.4	B	2.3	0.2	mg/kg dry	1.00	10/20/09 22:32	DAN	9J15055	6010B
Mercury	0.0132	J	0.0221	0.0089	mg/kg dry	1.00	10/20/09 15:28	MXM	9J19084	7471A

### General Chemistry Parameters

Percent Solids	84		0.010	NR	%	1.00	10/12/09 15:46	JR	9J12049	Dry Weight
Cyanide	ND		1.2	0.6	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A



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Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabaton Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-09 (S9 - Solid)						Sampled: 10/06/09		Recvd: 10/09/09 09:20		
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>										
1,1,1-Trichloroethane	ND		5.5	0.40	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.5	0.89	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.5	0.67	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.5	0.58	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.5	0.33	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.5	0.21	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.5	0.43	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.5	0.76	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,4-Dioxane	ND		220	26	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
2-Butanone (MEK)	ND		27	2.0	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Benzene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Bromochloromethane	ND		5.5	0.39	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Bromodichloromethane	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Bromoform	ND		5.5	2.7	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Bromomethane	ND		5.5	1.2	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Carbon disulfide	ND		5.5	0.47	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.5	0.53	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Chlorobenzene	ND		5.5	0.72	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Dibromochloromethane	ND		5.5	0.30	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Chloroethane	ND		5.5	2.3	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Chloroform	ND		5.5	0.34	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Chloromethane	ND		5.5	0.33	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.5	0.31	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Cyclohexane	1.3	J	5.5	0.25	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.5	0.45	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Isopropylbenzene	ND		5.5	0.82	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Methyl Acetate	ND		5.5	0.30	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.5	0.54	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Methylcyclohexane	ND		5.5	0.35	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Methylene Chloride	1.6	J	5.5	1.1	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		11	0.92	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
o-Xylene	ND		5.5	0.71	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Styrene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Tetrachloroethene	ND		5.5	0.73	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Toluene	ND		5.5	0.41	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B

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Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-09 (S9 - Solid) - cont.						Sampled: 10/06/09		Recvd: 10/09/09 09:20		

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.5	0.56	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Trichloroethene	ND		5.5	0.38	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.5	0.52	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.67	ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
1,2-Dichloroethane-d4	98 %		Surr Limits: (64-126%)				10/10/09 22:55	PQ	9J10019	8260B
4-Bromofluorobenzene	112 %		Surr Limits: (72-126%)				10/10/09 22:55	PQ	9J10019	8260B
Toluene-d8	112 %		Surr Limits: (71-125%)				10/10/09 22:55	PQ	9J10019	8260B

### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/kg dry	1.00	10/10/09 22:55	PQ	9J10019	8260B
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### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND	D10	1900	170	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND	D10	1900	1900	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND	D10	1900	410	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND	D10	1900	120	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,4-Dichlorophenol	ND	D10	1900	98	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,4-Dimethylphenol	ND	D10	1900	510	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,4-Dinitrophenol	ND	D10	3700	650	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND	D10	1900	290	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND	D10	1900	460	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2-Chloronaphthalene	ND	D10	1900	130	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2-Chlorophenol	ND	D10	1900	95	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2-Methylnaphthalene	ND	D10	1900	23	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2-Methylphenol	ND	D10	1900	58	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2-Nitroaniline	ND	D10	3700	600	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
2-Nitrophenol	ND	D10	1900	86	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND	D10	1900	1600	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
3-Nitroaniline	ND	D10	3700	430	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND	D10	3700	650	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND	D10	1900	600	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND	D10	1900	77	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Chloroaniline	ND	D10	1900	550	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND	D10	1900	40	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Methylphenol	ND	D10	3700	100	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Nitroaniline	ND	D10	3700	210	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
4-Nitrophenol	ND	D10	3700	450	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Acenaphthene	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Acenaphthylene	ND	D10	1900	15	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Acetophenone	ND	D10	1900	96	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Anthracene	ND	D10	1900	48	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Atrazine	ND	D10	1900	83	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Benzaldehyde	ND	D10	1900	210	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Benzo[a]anthracene	ND	D10	1900	32	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C
Benzo[a]pyrene	ND	D10	1900	45	ug/kg dry	10.0	10/16/09 14:07	MKP	9J13065	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-09 (S9 - Solid) - cont.

Sampled: 10/06/09

Recvd: 10/09/09 09:20

### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND	D10	1900	36	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Benzo[g,h,i]perylene	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Benzo[k]fluoranthene	ND	D10	1900	21	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
1,1'-Biphenyl	ND	D10	1900	120	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Bis(2-chloroethoxy)methane	ND	D10	1900	100	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Bis(2-chloroethyl)ether	ND	D10	1900	160	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D10	1900	200	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Bis(2-ethylhexyl)phthalate	ND	D10	1900	600	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Butyl benzyl phthalate	ND	D10	1900	500	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Caprolactam	ND	D10	1900	810	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Carbazole	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Chrysene	ND	D10	1900	19	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Dibenz[a,h]anthracene	ND	D10	1900	22	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Dibenzofuran	ND	D10	1900	19	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Diethyl phthalate	ND	D10	1900	57	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Dimethyl phthalate	ND	D10	1900	49	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Di-n-butyl phthalate	ND	D10	1900	650	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Di-n-octyl phthalate	ND	D10	1900	44	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Fluoranthene	ND	D10	1900	27	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Fluorene	ND	D10	1900	43	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Hexachlorobenzene	ND	D10	1900	93	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Hexachlorobutadiene	ND	D10	1900	96	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Hexachlorocyclopentadiene	ND	D10	1900	570	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Hexachloroethane	ND	D10	1900	140	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Indeno[1,2,3-cd]pyrene	ND	D10	1900	52	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Isophorone	ND	D10	1900	94	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Naphthalene	ND	D10	1900	31	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Nitrobenzene	ND	D10	1900	83	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
N-Nitrosodi-n-propylamine	ND	D10	1900	150	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
N-Nitrosodiphenylamine	ND	D10	1900	100	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Pentachlorophenol	ND	D10	3700	640	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Phenanthrene	ND	D10	1900	39	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Phenol	ND	D10	1900	200	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
Pyrene	ND	D10	1900	12	ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
2,4,6-Tribromophenol	79 %	D10	Surr Limits: (39-146%)				10/16/09 14:07 MKP	9J13065	8270C
2-Fluorobiphenyl	98 %	D10	Surr Limits: (37-120%)				10/16/09 14:07 MKP	9J13065	8270C
2-Fluorophenol	77 %	D10	Surr Limits: (18-120%)				10/16/09 14:07 MKP	9J13065	8270C
Nitrobenzene-d5	90 %	D10	Surr Limits: (34-132%)				10/16/09 14:07 MKP	9J13065	8270C
Phenol-d5	87 %	D10	Surr Limits: (11-120%)				10/16/09 14:07 MKP	9J13065	8270C
p-Terphenyl-d14	95 %	D10	Surr Limits: (58-147%)				10/16/09 14:07 MKP	9J13065	8270C

### Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND	D10		ug/kg dry	10.0	10/16/09 14:07 MKP	9J13065	8270C
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### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.8	0.36	ug/kg dry	1.00	10/19/09 18:44 DGB	9J10008	8081A
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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-09 (S9 - Solid) - cont.						Sampled: 10/06/09		Recvd: 10/09/09 09:20		

#### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	ND	QFL	1.8	0.53	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
4,4'-DDT [2C]	ND	QFL	1.8	0.42	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.8	0.19	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.8	0.91	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
delta-BHC [2C]	0.94	QFL,J	1.8	0.24	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	1.8	0.44	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.39	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Endosulfan II [2C]	ND	QFL,C4	1.8	0.33	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL	1.8	0.34	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Endrin [2C]	ND	QFL,C4	1.8	0.59	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL,C4	1.8	0.47	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.45	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	0.65	QFL,J	1.8	0.32	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.53	QFL,C4, J	1.8	0.25	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.8	0.29	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL,C4	1.8	0.49	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	18	11	ug/kg dry	1.00	10/19/09 18:44	DGB	9J10008	8081A
Decachlorobiphenyl [2C]	82 %	QFL	Surr Limits: (42-146%)				10/19/09 18:44	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	82 %	QFL	Surr Limits: (37-136%)				10/19/09 18:44	DGB	9J10008	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1221	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1232	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1242	ND		19	4.0	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1248	ND		19	3.6	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1254	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1260	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1262	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Aroclor 1268	ND		19	3.9	ug/kg dry	1.00	10/18/09 18:47	SCH	9J16100	8082
Decachlorobiphenyl	70 %		Surr Limits: (34-148%)				10/18/09 18:47	SCH	9J16100	8082
Tetrachloro-m-xylene	78 %		Surr Limits: (35-134%)				10/18/09 18:47	SCH	9J16100	8082

#### Total Metals by SW 846 Series Methods

Aluminum	9060		11.9	1.5	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Antimony	ND		17.8	0.6	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Arsenic	3.5	B	2.4	0.3	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Barium	52.2		0.593	0.031	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Beryllium	0.378	B	0.237	0.012	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Cadmium	0.138	J	0.237	0.047	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Calcium	4040		59.3	11.9	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Chromium	12.4		0.593	0.107	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Cobalt	7.68		0.593	0.059	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Copper	29.3		1.2	0.1	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Iron	18800		11.9	3.6	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B

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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-09 (S9 - Solid) - cont.						Sampled: 10/06/09		Recvd: 10/09/09 09:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Lead	14.5		1.2	0.1	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Magnesium	4280	B	23.7	1.1	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Manganese	280	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Nickel	13.8		5.93	0.095	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Potassium	1230		35.6	5.8	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Selenium	ND		4.7	0.7	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Silver	ND		0.593	0.083	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Sodium	287		166	36.7	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Thallium	ND		7.1	0.4	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Vanadium	18.8		0.593	0.047	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Zinc	49.9	B	2.4	0.2	mg/kg dry	1.00	10/20/09 22:37	DAN	9J15055	6010B
Mercury	0.0097	J	0.0223	0.0090	mg/kg dry	1.00	10/20/09 15:29	MXM	9J19064	7471A
<u>General Chemistry Parameters</u>										
Percent Solids	89		0.010	NR	%	1.00	10/12/09 15:48	JR	9J12049	Dry Weight
Cyanide	ND		1.1	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-10 (S10 - Solid)						Sampled: 10/06/09		Recvd: 10/09/09 09:20		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.5	0.40	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,1,2,2-Tetrachloroethane	ND		5.5	0.90	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,1,2-Trichloroethane	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	2.8	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,1-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,1-Dichloroethene	ND		5.5	0.68	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2,3-Trichlorobenzene	ND		5.5	0.59	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2,4-Trichlorobenzene	ND		5.5	0.34	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2-Dibromo-3-chloropropane	ND		5.5	2.8	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2-Dibromoethane (EDB)	ND		5.5	0.21	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2-Dichlorobenzene	ND		5.5	0.43	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2-Dichloroethane	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2-Dichloropropane	ND		5.5	2.8	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,3-Dichlorobenzene	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,4-Dichlorobenzene	ND		5.5	0.77	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,4-Dioxane	ND		220	27	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
2-Butanone (MEK)	ND		28	2.0	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
2-Hexanone	ND		28	1.9	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
4-Methyl-2-pentanone (MIBK)	ND		28	1.8	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Acetone	ND		28	1.2	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Benzene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Bromochloromethane	ND		5.5	0.40	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Bromodichloromethane	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Bromoform	ND		5.5	2.8	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Bromomethane	ND		5.5	1.2	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Carbon disulfide	ND		5.5	0.47	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Carbon Tetrachloride	ND		5.5	0.53	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Chlorobenzene	ND		5.5	0.73	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Dibromochloromethane	ND		5.5	0.30	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Chloroethane	ND		5.5	2.3	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Chloroform	ND		5.5	0.34	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Chloromethane	ND		5.5	0.33	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
cis-1,2-Dichloroethene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
cis-1,3-Dichloropropene	ND		5.5	0.31	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Cyclohexane	ND		5.5	0.25	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Dichlorodifluoromethane	ND		5.5	0.46	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Isopropylbenzene	ND		5.5	0.83	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Methyl Acetate	ND		5.5	0.30	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Methyl tert-Butyl Ether	ND		5.5	0.54	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Methylcyclohexane	ND		5.5	0.36	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Methylene Chloride	1.5	J	5.5	1.1	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
m-Xylene & p-Xylene	ND		11	0.93	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
o-Xylene	ND		5.5	0.72	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Styrene	ND		5.5	0.28	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Tetrachloroethene	ND		5.5	0.74	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Toluene	ND		5.5	0.42	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-10 (S10 - Solid) - cont.						Sampled: 10/06/09		Recvd: 10/09/09 09:20		

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		5.5	0.57	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
trans-1,3-Dichloropropene	ND		5.5	0.27	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Trichloroethene	ND		5.5	0.38	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Trichlorofluoromethane	ND		5.5	0.52	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
Vinyl chloride	ND		11	0.67	ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
1,2-Dichloroethane-d4	99 %		Surr Limits: (64-126%)				10/10/09 23:20	PQ	9J10019	8260B
4-Bromofluorobenzene	112 %		Surr Limits: (72-126%)				10/10/09 23:20	PQ	9J10019	8260B
Toluene-d8	112 %		Surr Limits: (71-125%)				10/10/09 23:20	PQ	9J10019	8260B

#### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/kg dry	1.00	10/10/09 23:20	PQ	9J10019	8260B
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#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND	D10	930	84	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,3,4,6-Tetrachlorophenol	ND	D10	930	930	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,4,5-Trichlorophenol	ND	D10	930	200	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,4,6-Trichlorophenol	ND	D10	930	61	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,4-Dichlorophenol	ND	D10	930	48	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,4-Dimethylphenol	ND	D10	930	250	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,4-Dinitrophenol	ND	D10	1800	320	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,4-Dinitrotoluene	ND	D10	930	140	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2,6-Dinitrotoluene	ND	D10	930	230	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2-Chloronaphthalene	ND	D10	930	62	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2-Chlorophenol	ND	D10	930	47	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2-Methylnaphthalene	ND	D10	930	11	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2-Methylphenol	ND	D10	930	28	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2-Nitroaniline	ND	D10	1800	300	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
2-Nitrophenol	ND	D10	930	42	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
3,3'-Dichlorobenzidine	ND	D10	930	810	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
3-Nitroaniline	ND	D10	1800	210	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4,6-Dinitro-2-methylphenol	ND	D10	1800	320	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Bromophenyl phenyl ether	ND	D10	930	290	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Chloro-3-methylphenol	ND	D10	930	38	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Chloroaniline	ND	D10	930	270	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Chlorophenyl phenyl ether	ND	D10	930	20	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Methylphenol	ND	D10	1800	51	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Nitroaniline	ND	D10	1800	100	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
4-Nitrophenol	ND	D10	1800	220	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Acenaphthene	ND	D10	930	11	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Acenaphthylene	ND	D10	930	7.6	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Acetophenone	ND	D10	930	47	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Anthracene	ND	D10	930	24	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Alrazine	ND	D10	930	41	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Benzaldehyde	ND	D10	930	100	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Benzo[a]anthracene	ND	D10	930	16	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C
Benzo[a]pyrene	ND	D10	930	22	ug/kg dry	5.00	10/16/09 14:32	MKP	9J13065	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattori Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-10 (S10 - Solid) - cont.						Sampled: 10/06/09		Recvd: 10/09/09 09:20		
Semivolatile Organics by GC/MS - cont.										
Benzo[b]fluoranthene	ND	D10	930	18	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Benzo[g,h,i]perylene	75	D10,J	930	11	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Benzo[k]fluoranthene	ND	D10	930	10	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
1,1'-Biphenyl	ND	D10	930	58	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Bis(2-chloroethoxy)methane	ND	D10	930	50	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Bis(2-chloroethyl)ether	ND	D10	930	80	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
2,2'-Oxybis(1-Chloropropane)	ND	D10	930	97	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Bis(2-ethylhexyl)phthalate	ND	D10	930	300	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Butyl benzyl phthalate	ND	D10	930	250	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Caprolactam	ND	D10	930	400	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Carbazole	ND	D10	930	11	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Chrysene	ND	D10	930	9.2	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Dibenz[a,h]anthracene	ND	D10	930	11	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Dibenzofuran	ND	D10	930	9.6	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Diethyl phthalate	ND	D10	930	28	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Dimethyl phthalate	ND	D10	930	24	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Di-n-butyl phthalate	ND	D10	930	320	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Di-n-octyl phthalate	ND	D10	930	22	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Fluoranthene	ND	D10	930	13	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Fluorene	ND	D10	930	21	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Hexachlorobenzene	ND	D10	930	46	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Hexachlorobutadiene	ND	D10	930	47	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Hexachlorocyclopentadiene	ND	D10	930	280	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Hexachloroethane	ND	D10	930	72	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Indeno[1,2,3-cd]pyrene	ND	D10	930	26	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Isophorone	ND	D10	930	46	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Naphthalene	ND	D10	930	15	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Nitrobenzene	ND	D10	930	41	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
N-Nitrosodi-n-propylamine	ND	D10	930	73	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
N-Nitrosodiphenylamine	ND	D10	930	51	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Pentachlorophenol	ND	D10	1800	320	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Phenanthrene	ND	D10	930	19	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Phenol	ND	D10	930	97	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
Pyrene	ND	D10	930	6.0	ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C	
2,4,6-Tribromophenol	78 %	D10	Surr Limits: (39-146%)				10/16/09 14:32 MKP	9J13065	8270C	
2-Fluorobiphenyl	81 %	D10	Surr Limits: (37-120%)				10/16/09 14:32 MKP	9J13065	8270C	
2-Fluorophenol	64 %	D10	Surr Limits: (18-120%)				10/16/09 14:32 MKP	9J13065	8270C	
Nitrobenzene-d5	76 %	D10	Surr Limits: (34-132%)				10/16/09 14:32 MKP	9J13065	8270C	
Phenol-d5	72 %	D10	Surr Limits: (11-120%)				10/16/09 14:32 MKP	9J13065	8270C	
p-Terphenyl-d14	79 %	D10	Surr Limits: (58-147%)				10/16/09 14:32 MKP	9J13065	8270C	

### Semivolatile Organics TICs by GC/MS

No TICs found (NOTICS)	ND	D10		ug/kg dry	5.00	10/16/09 14:32 MKP	9J13065	8270C
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### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	1.3	QFL,J	1.8	0.35	ug/kg dry	1.00	10/19/09 19:20 DGB	9J10008	8081A
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10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-10 (S10 - Solid) - cont.

Sampled: 10/06/09

Recvd: 10/09/09 09:20

### Organochlorine Pesticides by EPA Method 8081A - cont.

4,4'-DDE [2C]	0.70	QFL,J	1.8	0.52	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
4,4'-DDT [2C]	2.1	QFL	1.8	0.41	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Aldrin [2C]	ND	QFL	1.8	0.19	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
alpha-BHC [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
alpha-Chlordane [2C]	ND	QFL	1.8	0.90	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
delta-BHC [2C]	0.98	QFL,J	1.8	0.24	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Dieldrin [2C]	ND	QFL	1.8	0.44	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.38	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endosulfan II [2C]	0.46	QFL,C4, J	1.8	0.33	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endosulfan sulfate [2C]	ND	QFL	1.8	0.34	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endrin [2C]	ND	QFL,C4	1.8	0.59	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endrin aldehyde [2C]	ND	QFL,C4	1.8	0.46	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.45	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.8	0.32	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
gamma-Chlordane [2C]	0.41	QFL,J	1.8	0.25	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Heptachlor [2C]	ND	QFL	1.8	0.28	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Methoxychlor [2C]	ND	QFL	1.8	0.48	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A
Toxaphene [2C]	ND	QFL	18	11	ug/kg dry	1.00	10/19/09 19:20	DGB	9J10008	8081A

Decachlorobiphenyl [2C]	91 %	QFL	Surr Limits: (42-146%)				10/19/09 19:20	DGB	9J10008	8081A
Tetrachloro-m-xylene [2C]	90 %	QFL	Surr Limits: (37-136%)				10/19/09 19:20	DGB	9J10008	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		18	3.5	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1221	ND		18	3.5	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1232	ND		18	3.5	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1242	ND		18	3.9	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1248	ND		18	3.5	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1254	ND		18	3.8	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1260	ND		18	3.8	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1262	ND		18	3.8	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082
Aroclor 1268	ND		18	3.8	ug/kg dry	1.00	10/18/09 19:02	SCH	9J16100	8082

Decachlorobiphenyl	85 %		Surr Limits: (34-148%)				10/18/09 19:02	SCH	9J16100	8082
Tetrachloro-m-xylene	83 %		Surr Limits: (35-134%)				10/18/09 19:02	SCH	9J16100	8082

### Total Metals by SW 846 Series Methods

Aluminum	7140		11.9	1.5	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Antimony	ND		17.9	0.6	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Arsenic	2.8	B	2.4	0.3	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Barium	54.1		0.597	0.031	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Beryllium	0.308	B	0.239	0.012	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Cadmium	0.091	J	0.239	0.048	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Calcium	1670		59.7	11.9	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Chromium	10.0		0.597	0.107	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Cobalt	5.24		0.597	0.060	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Copper	12.3		1.2	0.1	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Iron	14300		11.9	3.6	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B

TestAmerica Buffalo

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www.testamericainc.com

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-10 (S10 - Solid) - cont.						Sampled: 10/06/09		Recvd: 10/09/09 09:20		

### Total Metals by SW 846 Series Methods - cont.

Lead	48.2		1.2	0.1	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Magnesium	2730	B	23.9	1.1	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Manganese	236	B1, B	0.2	0.04	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Nickel	9.69		5.97	0.096	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Potassium	1160		35.8	5.8	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Selenium	ND		4.8	0.7	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Silver	ND		0.597	0.084	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Sodium	67.9	J	167	37.0	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Thallium	ND		7.2	0.4	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Vanadium	14.9		0.597	0.048	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Zinc	30.0	B	2.4	0.2	mg/kg dry	1.00	10/20/09 22:54	DAN	9J15055	6010B
Mercury	0.0449		0.0218	0.0088	mg/kg dry	1.00	10/20/09 15:31	MXM	9J19064	7471A

### General Chemistry Parameters

Percent Solids	90		0.010	NR	%	1.00	10/12/09 15:50	JR	9J12049	Dry Weight
Cyanide	ND		1.1	0.5	mg/kg dry	1.00	10/16/09 09:27	LRM	9J14035	9012A

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciablatoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-11 (W1 - Ground Water)						Sampled: 10/07/09 11:40		Recvd: 10/09/09 09:20		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
m,p-Xylene	ND		2.0	0.66	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/13/09 03:02	NMD	9J12089	8260B

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-11 (W1 - Ground Water) - cont.						Sampled: 10/07/09 11:40		Recvd: 10/09/09 09:20		

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 03:02 NMD	9J12089	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 03:02 NMD	9J12089	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 03:02 NMD	9J12089	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 03:02 NMD	9J12089	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 03:02 NMD	9J12089	8260B
1,2-Dichloroethane-d4	95 %		Surr Limits: (66-137%)				10/13/09 03:02 NMD	9J12089	8260B
4-Bromofluorobenzene	96 %		Surr Limits: (73-120%)				10/13/09 03:02 NMD	9J12089	8260B
Toluene-d8	96 %		Surr Limits: (71-126%)				10/13/09 03:02 NMD	9J12089	8260B

#### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/L	1.00	10/13/09 03:02 NMD	9J12089	8260B
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#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.7	0.77	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.7	2.0	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.7	0.75	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.7	0.91	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.7	0.48	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.7	0.080	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2-Chlorophenol	ND		4.7	0.48	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2-Methylnaphthalene	ND		4.7	0.078	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2-Methylphenol	ND		4.7	0.22	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2-Nitrophenol	ND		4.7	0.57	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.7	0.35	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Bromophenyl phenyl ether	ND		4.7	0.85	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.7	0.56	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Chloroaniline	ND		4.7	0.31	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.7	0.16	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Acenaphthene	ND		4.7	0.11	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Acenaphthylene	ND		4.7	0.045	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Acetophenone	ND		4.7	0.97	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Anthracene	ND		4.7	0.053	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Atrazine	ND		4.7	1.0	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Benzaldehyde	ND		4.7	0.25	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.7	0.061	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.7	0.086	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-11 (W1 - Ground Water) - cont.

Sampled: 10/07/09 11:40 Recvd: 10/09/09 09:20

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		4.7	0.060	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.7	0.074	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.7	0.063	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
1,1'-Biphenyl	ND		4.7	0.62	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.7	0.38	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.7	0.17	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropane]	ND		3.8	3.8	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.7	4.5	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.7	1.6	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Caprolactam	ND		4.7	4.4	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Carbazole	ND		4.7	0.084	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Chrysene	ND		4.7	0.26	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.7	0.19	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Diethyl phthalate	0.41	J, B	4.7	0.10	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.7	0.28	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Di-n-butyl phthalate	ND		4.7	0.28	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.7	0.23	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Fluoranthene	ND		4.7	0.093	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Fluorene	ND		4.7	0.070	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.7	0.42	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.7	2.5	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.7	2.4	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Hexachloroethane	ND		4.7	2.7	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.7	0.15	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Isophorone	ND		4.7	0.30	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Naphthalene	ND		4.7	0.11	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Nitrobenzene	ND		4.7	0.51	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
N-Nitrosodi-n-propylamine	ND		4.7	0.43	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.7	0.25	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Phenanthrene	ND		4.7	0.11	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Phenol	ND		4.7	0.42	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Pyrene	ND		4.7	0.064	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C

2,4,6-Tribromophenol	109 %		Surr Limits: (52-132%)			10/13/09 18:56 MKP	9J12044	8270C
2-Fluorobiphenyl	92 %		Surr Limits: (48-120%)			10/13/09 18:56 MKP	9J12044	8270C
2-Fluorophenol	41 %		Surr Limits: (20-120%)			10/13/09 18:56 MKP	9J12044	8270C
Nitrobenzene-d5	97 %		Surr Limits: (46-120%)			10/13/09 18:56 MKP	9J12044	8270C
Phenol-d5	29 %		Surr Limits: (16-120%)			10/13/09 18:56 MKP	9J12044	8270C
p-Terphenyl-d14	89 %		Surr Limits: (24-136%)			10/13/09 18:56 MKP	9J12044	8270C

#### Semivolatile Organics TICs by GC/MS

2,6,10,14,18,22-Tetracosane, 2,6,10,15,19 (000111-02-4)	9.5	T7	Ret Time: 14.778	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Benzene, chloro- (000108-90-7)	5.2	T7	Ret Time: 3.714	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C

TestAmerica Buffalo

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643  
Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-11 (W1 - Ground Water) - cont.

Sampled: 10/07/09 11:40 Recvd: 10/09/09 09:20

### Semivolatile Organics TICs by GC/MS - cont.

Unknown01 (none)	4.7	T7, B	Ret Time: 11.744	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown02 (none)	6.0	T7, B	Ret Time: 11.78	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown03 (none)	16	T7, B	Ret Time: 12.657	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown04 (none)	51	T7, B	Ret Time: 12.791	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown05 (none)	4.4	T7, B	Ret Time: 13.448	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown06 (none)	37	T7, B	Ret Time: 13.608	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown07 (none)	22	T7, B	Ret Time: 14.201	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown08 (none)	22	T7, B	Ret Time: 14.223	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown09 (none)	7.8	T7, B	Ret Time: 14.249	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown10 (none)	27	T7, B	Ret Time: 14.34	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown11 (none)	44	T7, B	Ret Time: 14.938	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown12 (none)	5.2	T7, B	Ret Time: 15.734	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
UNKNOWN13 (none)	10	T7, B	Ret Time: 15.766	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown14 (none)	10	T7, B	Ret Time: 15.815	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown15 (none)	3.8	T7, B	Ret Time: 16.851	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C
Unknown16 (none)	5.2	T7, B	Ret Time: 16.915	ug/L	1.00	10/13/09 18:56 MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	0.047	0.016	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
4,4'-DDE [2C]	ND	0.047	0.011	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
4,4'-DDT [2C]	ND	0.047	0.010	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Aldrin [2C]	ND	0.047	0.0062	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
alpha-BHC [2C]	ND	0.047	0.0062	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND	0.047	0.014	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
beta-BHC [2C]	ND	0.047	0.023	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
delta-BHC [2C]	ND	0.047	0.0095	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Dieldrin [2C]	ND	0.047	0.018	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Endosulfan I [2C]	ND	0.047	0.010	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Endosulfan II [2C]	ND	0.047	0.011	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND	0.047	0.015	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Endrin [2C]	ND	0.047	0.013	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Endrin aldehyde [2C]	ND	0.047	0.015	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Endrin ketone [2C]	ND	0.047	0.011	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	ND	0.047	0.0057	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
gamma-Chlordane [2C]	ND	0.047	0.010	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Heptachlor [2C]	ND	0.047	0.0080	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Heptachlor epoxide [2C]	ND	0.047	0.0050	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Methoxychlor [2C]	ND	0.047	0.013	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A
Toxaphene [2C]	ND	0.47	0.11	ug/L	1.00	10/14/09 02:26 DGB	9J09108	8081A

Decachlorobiphenyl [2C]	60 %	Surr Limits: (15-139%)				10/14/09 02:26 DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	66 %	Surr Limits: (30-139%)				10/14/09 02:26 DGB	9J09108	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND	0.47	0.17	ug/L	1.00	10/12/09 02:06 JxM	9J09109	8082
Aroclor 1221	ND	0.47	0.17	ug/L	1.00	10/12/09 02:06 JxM	9J09109	8082

TestAmerica Buffalo

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-11 (W1 - Ground Water) - cont.

Sampled: 10/07/09 11:40 Recvd: 10/09/09 09:20

### Polychlorinated Biphenyls by EPA Method 8082 - cont.

Aroclor 1232	ND		0.47	0.17	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082
Aroclor 1242	ND		0.47	0.17	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082
Aroclor 1248	ND		0.47	0.17	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082
Aroclor 1254	ND		0.47	0.24	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082
Aroclor 1260	ND		0.47	0.24	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082
Aroclor 1262	ND		0.47	0.24	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082
Aroclor 1268	ND		0.47	0.24	ug/L	1.00	10/12/09 02:06	JxM	9J09109	8082

Decachlorobiphenyl	76 %		Surr Limits: (12-137%)				10/12/09 02:06	JxM	9J09109	8082
Tetrachloro-m-xylene	76 %		Surr Limits: (35-121%)				10/12/09 02:06	JxM	9J09109	8082

### Total Metals by SW 846 Series Methods

Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Barium	0.121		0.0020	0.0003	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Calcium	112		0.5	0.1	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Cobalt	0.0026	J	0.0040	0.0006	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Iron	ND		0.050	0.019	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Magnesium	24.7		0.200	0.043	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Manganese	0.0057		0.0030	0.0002	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Potassium	3.00		0.500	0.050	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Sodium	230		1.0	0.3	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Zinc	0.0017	J	0.0100	0.0015	mg/L	1.00	10/13/09 16:45	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:00	MXM	9J17027	7470A

### General Chemistry Parameters

Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A
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A2L Technologies  
10220 Hamey Road, NE  
Thonolosa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-12 (W2 - Ground Water)						Sampled: 10/07/09 14:19		Recvd: 10/09/09 09:20		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Acetone	ND		5.0	1.3	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Benzene	ND		1.0	0.41	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
m,p-Xylene	ND		2.0	0.66	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	
Toluene	ND		1.0	0.51	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B	

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-12 (W2 - Ground Water) - cont.						Sampled: 10/07/09 14:19		Recvd: 10/09/09 09:20		

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B
1,2-Dichloroethane-d4	94 %		Surr Limits: (66-137%)				10/13/09 03:25 NMD	9J12089	8260B
4-Bromofluorobenzene	94 %		Surr Limits: (73-120%)				10/13/09 03:25 NMD	9J12089	8260B
Toluene-d8	96 %		Surr Limits: (71-126%)				10/13/09 03:25 NMD	9J12089	8260B

### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/L	1.00	10/13/09 03:25 NMD	9J12089	8260B
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### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.7	0.77	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.7	2.0	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.7	0.75	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.7	0.91	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.7	0.48	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.7	0.080	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2-Chlorophenol	ND		4.7	0.48	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2-Methylnaphthalene	ND		4.7	0.078	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2-Methylphenol	ND		4.7	0.22	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2-Nitrophenol	ND		4.7	0.57	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.7	0.35	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Bromophenyl phenyl ether	ND		4.7	0.85	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.7	0.56	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Chloroaniline	ND		4.7	0.31	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.7	0.16	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Acenaphthene	ND		4.7	0.11	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Acenaphthylene	ND		4.7	0.045	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Acetophenone	ND		4.7	0.97	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Anthracene	ND		4.7	0.053	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Atrazine	ND		4.7	1.0	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Benzaldehyde	ND		4.7	0.25	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.7	0.061	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.7	0.086	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-12 (W2 - Ground Water) - cont.

Sampled: 10/07/09 14:19 Recvd: 10/09/09 09:20

## Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		4.7	0.060	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.7	0.074	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.7	0.063	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
1,1'-Biphenyl	ND		4.7	0.62	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.7	0.36	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.7	0.17	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropene]	ND		3.8	3.8	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.7	4.5	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.7	1.6	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Caprolactam	ND		4.7	4.4	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Carbazole	ND		4.7	0.084	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Chrysene	ND		4.7	0.26	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.7	0.19	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Diethyl phthalate	0.62	J, B	4.7	0.10	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.7	0.28	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Di-n-butyl phthalate	0.30	J	4.7	0.28	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.7	0.23	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Fluoranthene	ND		4.7	0.093	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Fluorene	ND		4.7	0.070	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.7	0.42	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.7	2.5	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.7	2.4	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Hexachloroethane	ND		4.7	2.7	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.7	0.15	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Isophorone	ND		4.7	0.30	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Naphthalene	ND		4.7	0.11	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Nitrobenzene	ND		4.7	0.51	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
N-Nitrosodi-n-propylamine	ND		4.7	0.43	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.7	0.25	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Phenanthrene	ND		4.7	0.11	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Phenol	ND		4.7	0.42	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Pyrene	ND		4.7	0.064	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C

2,4,6-Tribromophenol	115 %		Surr Limits: (52-132%)			10/13/09 19:21 MKP	9J12044	8270C
2-Fluorobiphenyl	99 %		Surr Limits: (48-120%)			10/13/09 19:21 MKP	9J12044	8270C
2-Fluorophenol	48 %		Surr Limits: (20-120%)			10/13/09 19:21 MKP	9J12044	8270C
Nitrobenzene-d5	101 %		Surr Limits: (46-120%)			10/13/09 19:21 MKP	9J12044	8270C
Phenol-d5	34 %		Surr Limits: (16-120%)			10/13/09 19:21 MKP	9J12044	8270C
p-Terphenyl-d14	87 %		Surr Limits: (24-136%)			10/13/09 19:21 MKP	9J12044	8270C

## Semivolatile Organics TICs by GC/MS

Benzene, chloro- (000108-90-7)	4.3		Ret Time: 3.72	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown01 (none)	5.2	T7, B	Ret Time: 11.744	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown02 (none)	6.0	T7, B	Ret Time: 11.78	ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-12 (W2 - Ground Water) - cont.

Sampled: 10/07/09 14:19 Recvd: 10/09/09 09:20

#### Semivolatile Organics TICs by GC/MS - cont.

Unknown03 (none)	15	T7, B	Rel Time: 12.657		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown04 (none)	18	T7, B	Rel Time: 12.791		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown05 (none)	16	T7, B	Rel Time: 13.485		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown06 (none)	13	T7, B	Rel Time: 13.512		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown07 (none)	38	T7, B	Rel Time: 13.608		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown08 (none)	21	T7, B	Rel Time: 14.201		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown09 (none)	24	T7, B	Rel Time: 14.22		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown10 (none)	8.7	T7, B	Rel Time: 14.249		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown11 (none)	82	T7, B	Rel Time: 14.34		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown12 (none)	8.4	T7, B	Rel Time: 14.778		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
UNKNOWN13 (none)	45	T7, B	Rel Time: 14.94		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown14 (none)	25	T7, B	Rel Time: 14.97		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown15 (none)	5.5	T7, B	Rel Time: 15.734		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown16 (none)	11	T7, B	Rel Time: 15.772		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown17 (none)	10	T7, B	Rel Time: 15.815		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown18 (none)	4.8	T7	Rel Time: 16.856		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C
Unknown19 (none)	6.0	T7	Rel Time: 16.91		ug/L	1.00	10/13/09 19:21 MKP	9J12044	8270C

#### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.047	0.016	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
4,4'-DDE [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
4,4'-DDT [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Aldrin [2C]	ND		0.047	0.0062	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
alpha-BHC [2C]	ND		0.047	0.0062	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND		0.047	0.014	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
beta-BHC [2C]	ND		0.047	0.023	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
delta-BHC [2C]	ND		0.047	0.0095	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Dieldrin [2C]	ND		0.047	0.018	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Endosulfan I [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Endosulfan II [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Endrin [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Endrin aldehyde [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Endrin ketone [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	ND		0.047	0.0057	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
gamma-Chlordane [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Heptachlor [2C]	ND		0.047	0.0080	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Heptachlor epoxide [2C]	0.026	J	0.047	0.0050	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Methoxychlor [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Toxaphene [2C]	ND		0.47	0.11	ug/L	1.00	10/14/09 03:02 DGB	9J09108	8081A
Decachlorobiphenyl [2C]	76 %		Surr Limits: (15-139%)				10/14/09 03:02 DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	62 %		Surr Limits: (30-139%)				10/14/09 03:02 DGB	9J09108	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.47	0.17	ug/L	1.00	10/12/09 02:20 JxM	9J09109	8082
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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-12 (W2 - Ground Water) - cont.						Sampled: 10/07/09 14:19		Recvd: 10/09/09 09:20		
<u>Polychlorinated Biphenyls by EPA Method 8082 - cont.</u>										
Aroclor 1221	ND		0.47	0.17	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1232	ND		0.47	0.17	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1242	ND		0.47	0.17	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1248	ND		0.47	0.17	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1254	ND		0.47	0.24	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1260	ND		0.47	0.24	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1262	ND		0.47	0.24	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Aroclor 1268	ND		0.47	0.24	ug/L	1.00	10/12/09 02:20	JxM	9J09109	8082
Decachlorobiphenyl	91 %		Surr Limits: (12-137%)				10/12/09 02:20	JxM	9J09109	8082
Tetrachloro-m-xylene	71 %		Surr Limits: (35-121%)				10/12/09 02:20	JxM	9J09109	8082
<u>Total Metals by SW 846 Series Methods</u>										
Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0088	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Barium	0.198		0.0020	0.0003	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Beryllium	0.0003	J	0.0020	0.0002	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Calcium	238		0.5	0.1	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Iron	0.020	J	0.050	0.019	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Magnesium	59.5		0.200	0.043	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Manganese	0.0102		0.0030	0.0002	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Potassium	4.31		0.500	0.050	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Sodium	223		1.0	0.3	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Zinc	ND		0.0100	0.0015	mg/L	1.00	10/13/09 16:50	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:02	MXM	9J17027	7470A
<u>General Chemistry Parameters</u>										
Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A

A2L Technologies  
10220 Hamey Road, NE  
Thonolosa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-13 (W3 - Ground Water)

Sampled: 10/07/09 17:21 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Acetone	4.4	J	5.0	1.3	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Isopropylbenzene	18		1.0	0.19	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Methyl tert-Butyl Ether	0.48	J	1.0	0.16	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
m,p-Xylene	ND		2.0	0.66	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/13/09 03:47	NMD	9J12089	8260B

TestAmerica Buffalo

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10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-13 (W3 - Ground Water) - cont.

Sampled: 10/07/09 17:21 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
1,2-Dichloroethane-d4	93 %		Surr Limits: (66-137%)				10/13/09 03:47 NMD	9J12089	8260B
4-Bromofluorobenzene	83 %		Surr Limits: (73-120%)				10/13/09 03:47 NMD	9J12089	8260B
Toluene-d8	82 %		Surr Limits: (71-126%)				10/13/09 03:47 NMD	9J12089	8260B

### Tentatively Identified Compounds by EPA 8260B

1H-Indene, 2,3-dihydro-1,3-dimethyl- (004175-53-5)	20	T7	Ret Time: 12.567		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Benzene, 1,2,3,5-tetramethyl- (000527-53-7)	26	T7	Ret Time: 11.737		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Benzene, 1-ethenyl-3-ethyl- (007525-82-4)	51	T7	Ret Time: 11.493		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Butane, 2,2-dimethyl- (000076-83-2)	29	T7	Ret Time: 2.623		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Butane, 2,3-dimethyl- (000079-29-8)	38	T7	Ret Time: 3.038		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Cyclopentane, 1,2,4-trimethyl- (1.alpha.,2.beta (016883-48-0)	29	T7	Ret Time: 6.062		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Hexane, 2,4-dimethyl- (000589-43-5)	22	T7	Ret Time: 5.867		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Hexane, 2,5-dimethyl- (000592-13-2)	30	T7	Ret Time: 5.818		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Pentane, 2,3,3-trimethyl- (000560-21-4)	31	T7	Ret Time: 6.33		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B
Pentane, 2,4-dimethyl- (000108-08-7)	21	T7	Ret Time: 4.038		ug/L	1.00	10/13/09 03:47 NMD	9J12089	8260B

### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.8	0.78	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.8	2.0	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.8	0.94	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.8	0.95	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.8	0.75	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.8	0.92	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.8	0.49	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.8	0.080	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2-Chlorophenol	ND		4.8	0.48	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2-Methylnaphthalene	ND		4.8	0.078	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2-Methylphenol	ND		4.8	0.22	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2-Nitrophenol	ND		4.8	0.57	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-13 (W3 - Ground Water) - cont.						Sampled: 10/07/09 17:21		Recvd: 10/09/09 09:20		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Bromophenyl phenyl ether	ND		4.8	0.86	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Chloro-3-methylphenol	ND		4.8	0.57	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Chloroaniline	ND		4.8	0.31	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Chlorophenyl phenyl ether	ND		4.8	0.16	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Acenaphthene	ND		4.8	0.11	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Acenaphthylene	ND		4.8	0.045	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Acetophenone	ND		4.8	0.97	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Anthracene	ND		4.8	0.053	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Atrazine	ND		4.8	1.0	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Benzaldehyde	ND		4.8	0.25	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Benzo[a]anthracene	ND		4.8	0.061	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Benzo[a]pyrene	ND		4.8	0.087	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Benzo[b]fluoranthene	ND		4.8	0.060	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Benzo[g,h,i]perylene	ND		4.8	0.074	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Benzo[k]fluoranthene	ND		4.8	0.063	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
1,1'-Biphenyl	ND		4.8	0.62	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Bis(2-chloroethoxy)methane	ND		4.8	0.36	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Bis(2-chloroethyl)ether	ND		4.8	0.17	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
2,2'-oxybis[1-chloropropane]	ND		3.8	3.8	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Bis(2-ethylhexyl)phthalate	ND		4.8	4.5	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Butyl benzyl phthalate	ND		4.8	1.7	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Caprolactam	ND		4.8	4.4	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Carbazole	ND		4.8	0.085	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Chrysene	ND		4.8	0.26	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Dibenz[a,h]anthracene	ND		4.8	0.19	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Diethyl phthalate	0.39	J, B	4.8	0.10	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Dimethyl phthalate	ND		4.8	0.29	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Di-n-butyl phthalate	0.46	J	4.8	0.28	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Di-n-octyl phthalate	ND		4.8	0.23	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Fluoranthene	ND		4.8	0.093	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Fluorene	0.25	J	4.8	0.070	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Hexachlorobenzene	ND		4.8	0.42	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Hexachlorobutadiene	ND		4.8	2.5	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Hexachlorocyclopentadiene	ND		4.8	2.4	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Hexachloroethane	ND		4.8	2.7	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Indeno[1,2,3-cd]pyrene	ND		4.8	0.15	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Isophorone	ND		4.8	0.30	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Naphthalene	ND		4.8	0.11	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C
Nitrobenzene	ND		4.8	0.51	ug/L	1.00	10/13/09 19:45 MKP	9J12044		8270C

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10220 Hamey Road, NE  
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Work Order: RSJ0643

Received: 10/09/09  
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Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-13 (W3 - Ground Water) - cont.

Sampled: 10/07/09 17:21 Recvd: 10/09/09 09:20

### Semivolatile Organics by GC/MS - cont.

N-Nitrosodi-n-propylamine	ND		4.8	0.43	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.8	0.25	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Phenanthrene	ND		4.8	0.11	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Phenol	ND		4.8	0.42	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Pyrene	ND		4.8	0.065	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
2,4,6-Tribromophenol	107 %		Surr Limits: (52-132%)				10/13/09 19:45 MKP	9J12044	8270C
2-Fluorobiphenyl	87 %		Surr Limits: (48-120%)				10/13/09 19:45 MKP	9J12044	8270C
2-Fluorophenol	39 %		Surr Limits: (20-120%)				10/13/09 19:45 MKP	9J12044	8270C
Nitrobenzene-d5	86 %		Surr Limits: (46-120%)				10/13/09 19:45 MKP	9J12044	8270C
Phenol-d5	28 %		Surr Limits: (16-120%)				10/13/09 19:45 MKP	9J12044	8270C
p-Terphenyl-d14	77 %		Surr Limits: (24-136%)				10/13/09 19:45 MKP	9J12044	8270C

### Semivolatile Organics TICs by GC/MS

Benzene, (1-methylethyl)- (000098-82-8)	13	T7	Ret Time: 4.772	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown01 (none)	5.4	T7, B	Ret Time: 3.148	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown02 (none)	6.5	T7, B	Ret Time: 3.57	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown03 (none)	14	T7, B	Ret Time: 6.925	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown04 (none)	7.5	T7, B	Ret Time: 11.754	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown05 (none)	5.6	T7, B	Ret Time: 11.776	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown06 (none)	12	T7, B	Ret Time: 12.657	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown07 (none)	55	T7, B	Ret Time: 12.791	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown08 (none)	12	T7, B	Ret Time: 12.84	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown09 (none)	18	T7, B	Ret Time: 13.608	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown10 (none)	15	T7, B	Ret Time: 14.201	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown11 (none)	11	T7, B	Ret Time: 14.223	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown12 (none)	62	T7, B	Ret Time: 14.34	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
UNKNOWN13 (none)	41	T7, B	Ret Time: 14.938	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown14 (none)	13	T7, B	Ret Time: 15.772	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
Unknown15 (none)	29	T7, B	Ret Time: 15.815	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
UnknownAlkene01 (none)	8.7	T7	Ret Time: 7.662	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
UnknownBenzeneDerivative 01 (none)	8.2	T7	Ret Time: 6.321	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
UnknownBenzeneDerivative 02 (none)	4.9	T7	Ret Time: 6.353	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C
UnknownBenzeneDerivative 03 (none)	12	T7	Ret Time: 7.63	ug/L	1.00	10/13/09 19:45 MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.047	0.016	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A
4,4'-DDE [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A
4,4'-DDT [2C]	0.024	J	0.047	0.010	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A
Aldrin [2C]	ND		0.047	0.0062	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A
alpha-BHC [2C]	ND		0.047	0.0062	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND		0.047	0.014	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A
beta-BHC [2C]	ND		0.047	0.023	ug/L	1.00	10/14/09 03:38 DGB	9J09108	8081A

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-13 (W3 - Ground Water) - cont.						Sampled: 10/07/09 17:21		Recvd: 10/09/09 09:20		

#### Organochlorine Pesticides by EPA Method 8081A - cont.

delta-BHC [2C]	0.026	J	0.047	0.0095	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Dieldrin [2C]	ND		0.047	0.018	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Endosulfan I [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Endosulfan II [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Endrin [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Endrin aldehyde [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Endrin ketone [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	ND		0.047	0.0057	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
gamma-Chlordane [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Heptachlor [2C]	ND		0.047	0.0080	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Heptachlor epoxide [2C]	ND		0.047	0.0050	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Methoxychlor [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Toxaphene [2C]	ND		0.47	0.11	ug/L	1.00	10/14/09 03:38	DGB	9J09108	8081A
Decachlorobiphenyl [2C]	63 %		Surr Limits: (15-139%)				10/14/09 03:38	DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	55 %		Surr Limits: (30-139%)				10/14/09 03:38	DGB	9J09108	8081A

#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.47	0.17	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1221	ND		0.47	0.17	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1232	ND		0.47	0.17	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1242	ND		0.47	0.17	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1248	ND		0.47	0.17	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1254	ND		0.47	0.24	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1280	ND		0.47	0.24	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1262	ND		0.47	0.24	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Aroclor 1268	ND		0.47	0.24	ug/L	1.00	10/12/09 02:35	JxM	9J09109	8082
Decachlorobiphenyl	83 %		Surr Limits: (12-137%)				10/12/09 02:35	JxM	9J09109	8082
Tetrachloro-m-xylene	72 %		Surr Limits: (35-121%)				10/12/09 02:35	JxM	9J09109	8082

#### Total Metals by SW 846 Series Methods

Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Barium	0.232		0.0020	0.0003	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Calcium	116		0.5	0.1	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Iron	7.32		0.050	0.019	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Magnesium	21.4		0.200	0.043	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Manganese	3.10		0.0030	0.0002	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Potassium	3.99		0.500	0.050	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-13 (W3 - Ground Water) - cont.						Sampled: 10/07/09 17:21		Recvd: 10/09/09 09:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Sodium	208		1.0	0.3	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Zinc	ND		0.0100	0.0015	mg/L	1.00	10/13/09 16:55	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:04	MXM	9J17027	7470A
<u>General Chemistry Parameters</u>										
Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A

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## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-14 (W4 - Ground Water)						Sampled: 10/08/09 10:35		Recvd: 10/09/09 09:20		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2-Dichlorobenzene	0.40	J	1.0	0.20	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,3-Dichlorobenzene	ND		1.0	0.38	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Acetone	4.6	J	5.0	1.3	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Benzene	2.6		1.0	0.41	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Ethylbenzene	2.1		1.0	0.18	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Isopropylbenzene	29		1.0	0.19	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Methyl tert-Butyl Ether	0.96	J	1.0	0.16	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
m,p-Xylene	0.78	J	2.0	0.66	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	
Toluene	0.66	J	1.0	0.51	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B	

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## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-14 (W4 - Ground Water) - cont.						Sampled: 10/08/09 10:35		Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 04:10 NMD	9J12089		8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 04:10 NMD	9J12089		8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 04:10 NMD	9J12089		8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 04:10 NMD	9J12089		8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 04:10 NMD	9J12089		8260B
1,2-Dichloroethane-d4	97 %		Surr Limits: (66-137%)				10/13/09 04:10 NMD	9J12089		8260B
4-Bromofluorobenzene	74 %		Surr Limits: (73-120%)				10/13/09 04:10 NMD	9J12089		8260B
Toluene-d8	73 %		Surr Limits: (71-126%)				10/13/09 04:10 NMD	9J12089		8260B

## Tentatively Identified Compounds by EPA 8260B

Benzene, 1,2,3,5-tetramethyl- (000527-53-7)	80	T7	Ret Time: 11.738	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Benzene, 1-ethenyl-3-ethyl- (007525-82-4)	91	T7	Ret Time: 11.494	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Butane, 2,3-dimethyl- (000079-29-8)	72	T7	Ret Time: 3.038	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Butane, 2-methyl- (01) (000078-78-4)	34	T7	Ret Time: 1.916	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Butane, 2-methyl- (02) (000078-78-4)	46	T7	Ret Time: 1.971	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Cyclopentane, 1,2,4-trimethyl-, (1.alpha.,2.beta.) (016883-48-0)	36	T7	Ret Time: 6.062	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Pentane, 2,4-dimethyl- (000108-08-7)	38	T7	Ret Time: 4.038	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Pentane, 3-methyl- (000096-14-0)	49	T7	Ret Time: 3.288	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Unknown01 (none)	44	T7	Ret Time: 5.808	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B
Unknown02 (none)	46	T7	Ret Time: 6.354	ug/L	1.00	10/13/09 04:10 NMD	9J12089	8260B

## Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.8	0.78	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.8	2.0	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.8	0.84	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.8	0.95	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.8	0.75	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.8	0.92	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.8	0.49	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.8	0.080	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2-Chlorophenol	ND		4.8	0.48	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2-Methylnaphthalene	ND		4.8	0.078	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2-Methylphenol	ND		4.8	0.22	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2-Nitrophenol	ND		4.8	0.57	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-14 (W4 - Ground Water) - cont.

Sampled: 10/08/09 10:35 Recvd: 10/09/09 09:20

#### Semivolatle Organics by GC/MS - cont.

4-Bromophenyl phenyl ether	ND		4.8	0.86	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.8	0.57	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4-Chloroaniline	ND		4.8	0.31	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.8	0.16	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Acenaphthene	0.20	J	4.8	0.11	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Acenaphthylene	ND		4.8	0.045	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Acetophenone	ND		4.8	0.97	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Anthracene	ND		4.8	0.053	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Atrazine	ND		4.8	1.0	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzaldehyde	ND		4.8	0.25	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.8	0.081	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.8	0.087	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzo[b]fluoranthene	ND		4.8	0.060	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.8	0.074	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.8	0.063	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
1,1'-Biphenyl	ND		4.8	0.62	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.8	0.36	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.8	0.17	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropane]	ND		3.8	3.8	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.8	4.5	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.8	1.7	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Caprolactam	ND		4.8	4.4	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Carbazole	ND		4.8	0.085	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Chrysene	ND		4.8	0.26	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.8	0.19	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Diethyl phthalate	0.34	J, B	4.8	0.10	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.8	0.29	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Di-n-butyl phthalate	0.66	J	4.8	0.28	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.8	0.23	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Fluoranthene	ND		4.8	0.093	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Fluorene	0.23	J	4.8	0.070	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.8	0.42	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.8	2.5	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.8	2.4	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Hexachloroethane	ND		4.8	2.7	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.8	0.15	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Isophorone	ND		4.8	0.30	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Naphthalene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Nitrobenzene	ND		4.8	0.51	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
N-Nitrosodi-n-propylamine	ND		4.8	0.43	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.8	0.25	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-14 (W4 - Ground Water) - cont.

Sampled: 10/08/09 10:35 Recvd: 10/09/09 09:20

### Semivolatle Organics by GC/MS - cont.

Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Phenanthrene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Phenol	ND		4.8	0.42	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Pyrene	ND		4.8	0.065	ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C

2,4,6-Tribromophenol	112 %		Surr Limits: (52-132%)				10/13/09 20:10 MKP	9J12044	8270C
2-Fluorobiphenyl	89 %		Surr Limits: (48-120%)				10/13/09 20:10 MKP	9J12044	8270C
2-Fluorophenol	39 %		Surr Limits: (20-120%)				10/13/09 20:10 MKP	9J12044	8270C
Nitrobenzene-d5	92 %		Surr Limits: (46-120%)				10/13/09 20:10 MKP	9J12044	8270C
Phenol-d5	28 %		Surr Limits: (16-120%)				10/13/09 20:10 MKP	9J12044	8270C
p-Terphenyl-d14	79 %		Surr Limits: (24-136%)				10/13/09 20:10 MKP	9J12044	8270C

### Semivolatle Organics TICs by GC/MS

Benzene, (1-methylethyl)- (000398-82-8)	28	T7	Ret Time: 4.772		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Benzene, propyl- (000103-65-1)	47	T7	Ret Time: 5.157		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown01 (none)	13	T7, B	Ret Time: 3.148		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown02 (none)	12	T7, B	Ret Time: 3.565		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown03 (none)	25	T7, B	Ret Time: 6.321		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown04 (none)	12	T7, B	Ret Time: 7.662		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown05 (none)	13	T7, B	Ret Time: 12.657		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown06 (none)	47	T7, B	Ret Time: 12.791		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown07 (none)	14	T7, B	Ret Time: 13.49		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown08 (none)	12	T7, B	Ret Time: 13.512		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown09 (none)	28	T7, B	Ret Time: 13.808		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown10 (none)	18	T7, B	Ret Time: 14.201		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown11 (none)	12	T7, B	Ret Time: 14.223		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown12 (none)	71	T7, B	Ret Time: 14.34		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
UNKNOWN13 (none)	40	T7, B	Ret Time: 14.938		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
Unknown14 (none)	19	T7, B	Ret Time: 14.97		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
UnknownBenzeneDerivative 01 (none)	14	T7	Ret Time: 6.231		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
UnknownBenzeneDerivative 02 (none)	12	T7	Ret Time: 6.353		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
UnknownBenzeneDerivative 03 (none)	49	T7	Ret Time: 6.925		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C
UnknownBenzeneDerivative 04 (none)	23	T7	Ret Time: 7.63		ug/L	1.00	10/13/09 20:10 MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.047	0.016	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
4,4'-DDE [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
4,4'-DDT [2C]	0.025	J	0.047	0.010	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Aldrin [2C]	ND		0.047	0.0063	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
alpha-BHC [2C]	ND		0.047	0.0063	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND		0.047	0.014	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
beta-BHC [2C]	ND		0.047	0.024	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
delta-BHC [2C]	0.024	J	0.047	0.0096	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Dieldrin [2C]	ND		0.047	0.018	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A

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A2L Technologies  
10220 Hamey Road, NE  
Thonolosa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-14 (W4 - Ground Water) - cont.

Sampled: 10/08/09 10:35 Recvd: 10/09/09 09:20

### Organochlorine Pesticides by EPA Method 8081A - cont.

Endosulfan I [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Endosulfan II [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Endrin [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Endrin aldehyde [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Endrin ketone [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	ND		0.047	0.0057	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
gamma-Chlordane [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Heptachlor [2C]	ND		0.047	0.0081	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Heptachlor epoxide [2C]	ND		0.047	0.0050	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Methoxychlor [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Toxaphene [2C]	ND		0.47	0.11	ug/L	1.00	10/14/09 04:13 DGB	9J09108	8081A
Decachlorobiphenyl [2C]	53 %		Surr Limits: (15-139%)				10/14/09 04:13 DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	50 %		Surr Limits: (30-139%)				10/14/09 04:13 DGB	9J09108	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.47	0.17	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1221	ND		0.47	0.17	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1232	ND		0.47	0.17	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1242	ND		0.47	0.17	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1248	ND		0.47	0.17	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1254	ND		0.47	0.24	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1260	ND		0.47	0.24	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1262	ND		0.47	0.24	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Aroclor 1268	ND		0.47	0.24	ug/L	1.00	10/12/09 03:19 JxM	9J09109	8082
Decachlorobiphenyl	73 %		Surr Limits: (12-137%)				10/12/09 03:19 JxM	9J09109	8082
Tetrachloro-m-xylene	72 %		Surr Limits: (35-121%)				10/12/09 03:19 JxM	9J09109	8082

### Total Metals by SW 846 Series Methods

Aluminum	0.056	J	0.200	0.040	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Barium	0.274		0.0020	0.0003	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Beryllium	0.0003	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Calcium	169		0.5	0.1	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Iron	3.15		0.050	0.019	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Magnesium	39.3		0.200	0.043	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Manganese	3.66		0.0030	0.0002	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Potassium	7.05		0.500	0.050	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B
Sodium	259		1.0	0.3	mg/L	1.00	10/13/09 17:00 DAN	9J12069	6010B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciablatoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-14 (W4 - Ground Water) - cont.

Sampled: 10/08/09 10:35 Recvd: 10/09/09 09:20

### Total Metals by SW 846 Series Methods - cont.

Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 17:00	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 17:00	DAN	9J12069	6010B
Zinc	0.0139		0.0100	0.0015	mg/L	1.00	10/13/09 17:00	DAN	9J12069	6010B
Mercury	0.0001	J	0.0002	0.0001	mg/L	1.00	10/17/09 18:05	MXM	9J17027	7470A

### General Chemistry Parameters

Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A
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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-15 (W5 - Ground Water)

Sampled: 10/07/09 15:41

Recvd: 10/09/09 09:20

#### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
m,p-Xylene	ND		2.0	0.66	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattone Brownfield Site  
Project Number: 48001559-2

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-15 (W5 - Ground Water) - cont.						Sampled: 10/07/09 15:41		Recvd: 10/09/09 09:20		

#### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
1,2-Dichloroethane-d4	91 %	Surr Limits: (66-137%)					10/13/09 04:32 NMD	9J12089	8260B
4-Bromofluorobenzene	99 %	Surr Limits: (73-120%)					10/13/09 04:32 NMD	9J12089	8260B
Toluene-d8	95 %	Surr Limits: (71-126%)					10/13/09 04:32 NMD	9J12089	8260B

#### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/L	1.00	10/13/09 04:32 NMD	9J12089	8260B
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#### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.8	0.78	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.8	2.0	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.8	0.94	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.8	0.95	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.8	0.75	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.8	0.92	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.8	0.49	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.8	0.080	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2-Chlorophenol	ND		4.8	0.48	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2-Methylnaphthalene	ND		4.8	0.078	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2-Methylphenol	ND		4.8	0.22	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2-Nitrophenol	ND		4.8	0.57	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Bromophenyl phenyl ether	ND		4.8	0.86	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.8	0.57	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Chloroaniline	ND		4.8	0.31	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.8	0.16	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Acenaphthene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Acenaphthylene	ND		4.8	0.045	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Acetophenone	ND		4.8	0.97	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Anthracene	ND		4.8	0.053	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Alrazine	ND		4.8	1.0	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Benzaldehyde	ND		4.8	0.25	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.8	0.061	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.8	0.087	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C

TestAmerica Buffalo

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A2L Technologies  
10220 Hamey Road, NE  
Thornton, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DIL Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-15 (W5 - Ground Water) - cont.						Sampled: 10/07/09 15:41		Recvd: 10/09/09 09:20		

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		4.8	0.060	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.8	0.074	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.8	0.063	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
1,1'-Biphenyl	ND		4.8	0.62	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.8	0.36	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.8	0.17	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropane]	ND		3.8	3.8	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.8	4.5	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.8	1.7	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Caprolactam	ND		4.8	4.4	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Carbazole	ND		4.8	0.085	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Chrysene	ND		4.8	0.26	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.8	0.19	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Diethyl phthalate	0.61	J, B	4.8	0.10	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.8	0.29	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Di-n-butyl phthalate	0.43	J	4.8	0.28	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.8	0.23	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Fluoranthene	ND		4.8	0.093	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Fluorene	ND		4.8	0.070	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.8	0.42	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.8	2.5	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.8	2.4	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Hexachloroethane	ND		4.8	2.7	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.8	0.15	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Isophorone	ND		4.8	0.30	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Naphthalene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Nitrobenzene	ND		4.8	0.51	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
N-Nitrosodi-n-propylamine	ND		4.8	0.43	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.8	0.25	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Phenanthrene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Phenol	ND		4.8	0.42	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Pyrene	ND		4.8	0.065	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
2,4,6-Tribromophenol	109 %		Surr Limits: (52-132%)				10/13/09 20:34 MKP	9J12044	8270C
2-Fluorobiphenyl	95 %		Surr Limits: (48-120%)				10/13/09 20:34 MKP	9J12044	8270C
2-Fluorophenol	42 %		Surr Limits: (20-120%)				10/13/09 20:34 MKP	9J12044	8270C
Nitrobenzene-d5	95 %		Surr Limits: (46-120%)				10/13/09 20:34 MKP	9J12044	8270C
Phenol-d5	29 %		Surr Limits: (16-120%)				10/13/09 20:34 MKP	9J12044	8270C
p-Terphenyl-d14	82 %		Surr Limits: (24-136%)				10/13/09 20:34 MKP	9J12044	8270C

#### Semivolatile Organics TICs by GC/MS

Unknown01 (none)	13	T7, B	Ret Time: 3.57	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown02 (none)	7.0	T7, B	Ret Time: 4.558	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown03 (none)	6.0	T7, B	Ret Time: 11.76	ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C

TestAmerica Buffalo

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-15 (W5 - Ground Water) - cont.

Sampled: 10/07/09 15:41 Recvd: 10/09/09 09:20

### Semivolatile Organics TICs by GC/MS - cont.

Unknown04 (none)	4.0	T7, B	Ret Time: 11.776		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown05 (none)	13	T7, B	Ret Time: 12.657		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown06 (none)	61	T7, B	Ret Time: 12.791		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown07 (none)	15	T7, B	Ret Time: 13.49		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown08 (none)	11	T7, B	Ret Time: 13.512		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown09 (none)	35	T7, B	Ret Time: 13.608		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown10 (none)	19	T7, B	Ret Time: 14.201		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown11 (none)	12	T7, B	Ret Time: 14.223		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown12 (none)	73	T7, B	Ret Time: 14.34		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
UNKNOWN13 (none)	43	T7, B	Ret Time: 14.94		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown14 (none)	19	T7, B	Ret Time: 14.97		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown15 (none)	4.8	T7, B	Ret Time: 15.734		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown16 (none)	8.9	T7, B	Ret Time: 15.772		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown17 (none)	8.7	T7, B	Ret Time: 15.815		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C
Unknown18 (none)	3.9	T7	Ret Time: 16.91		ug/L	1.00	10/13/09 20:34 MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.048	0.016	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
4,4'-DDE [2C]	ND		0.048	0.011	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
4,4'-DDT [2C]	ND		0.048	0.010	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Aldrin [2C]	ND		0.048	0.0063	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
alpha-BHC [2C]	ND		0.048	0.0063	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND		0.048	0.014	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
beta-BHC [2C]	ND		0.048	0.024	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
delta-BHC [2C]	0.021	J	0.048	0.0096	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Dieldrin [2C]	ND		0.048	0.019	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Endosulfan I [2C]	ND		0.048	0.010	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Endosulfan II [2C]	ND		0.048	0.011	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND		0.048	0.015	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Endrin [2C]	ND		0.048	0.013	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Endrin aldehyde [2C]	ND		0.048	0.016	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Endrin ketone [2C]	ND		0.048	0.011	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	ND		0.048	0.0057	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
gamma-Chlordane [2C]	ND		0.048	0.010	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Heptachlor [2C]	ND		0.048	0.0081	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Heptachlor epoxide [2C]	ND		0.048	0.0050	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Methoxychlor [2C]	ND		0.048	0.013	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Toxaphene [2C]	ND		0.48	0.11	ug/L	1.00	10/14/09 04:49 DGB	9J09108	8081A
Decachlorobiphenyl [2C]	68 %		Surr Limits: (15-139%)				10/14/09 04:49 DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	68 %		Surr Limits: (30-139%)				10/14/09 04:49 DGB	9J09108	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.48	0.17	ug/L	1.00	10/12/09 03:33 JxM	9J09109	8082
Aroclor 1221	ND		0.48	0.17	ug/L	1.00	10/12/09 03:33 JxM	9J09109	8082
Aroclor 1232	ND		0.48	0.17	ug/L	1.00	10/12/09 03:33 JxM	9J09109	8082
Aroclor 1242	ND		0.48	0.17	ug/L	1.00	10/12/09 03:33 JxM	9J09109	8082

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-15 (W5 - Ground Water) - cont.

Sampled: 10/07/09 15:41 Recvd: 10/09/09 09:20

#### Polychlorinated Biphenyls by EPA Method 8082 - cont.

Aroclor 1248	ND		0.48	0.17	ug/L	1.00	10/12/09 03:33	JxM	9J09109	8082
Aroclor 1254	ND		0.48	0.24	ug/L	1.00	10/12/09 03:33	JxM	9J09109	8082
Aroclor 1260	ND		0.48	0.24	ug/L	1.00	10/12/09 03:33	JxM	9J09109	8082
Aroclor 1262	ND		0.48	0.24	ug/L	1.00	10/12/09 03:33	JxM	9J09109	8082
Aroclor 1268	ND		0.48	0.24	ug/L	1.00	10/12/09 03:33	JxM	9J09109	8082
Decachlorobiphenyl	87 %		Surr Limits: (12-137%)				10/12/09 03:33	JxM	9J09109	8082
Tetrachloro-m-xylene	80 %		Surr Limits: (35-121%)				10/12/09 03:33	JxM	9J09109	8082

#### Total Metals by SW 846 Series Methods

Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Barium	0.180		0.0020	0.0003	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Beryllium	0.0003	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Calcium	174		0.5	0.1	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Cobalt	0.0006	J	0.0040	0.0006	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Iron	5.73		0.050	0.019	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Magnesium	36.3		0.200	0.043	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Manganese	1.72		0.0030	0.0002	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Potassium	3.64		0.500	0.050	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Sodium	278		1.0	0.3	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Zinc	0.0032	J	0.0100	0.0015	mg/L	1.00	10/13/09 17:05	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:07	MXM	9J17027	7470A

#### General Chemistry Parameters

Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A
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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattori Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-16 (W6 - Ground Water)						Sampled: 10/07/09 18:30		Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,1,2,2-Tetrachloroethane	ND	D08	4.0	0.85	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,1,2-Trichloroethane	ND	D08	4.0	0.92	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D08	4.0	1.2	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,1-Dichloroethane	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,1-Dichloroethene	ND	D08	4.0	1.2	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2,3-Trichlorobenzene	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2,4-Trichlorobenzene	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2-Dibromo-3-chloropropane	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2-Dibromoethane (EDB)	ND	D08	4.0	0.66	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2-Dichlorobenzene	ND	D08	4.0	0.81	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2-Dichloroethane	ND	D08	4.0	0.86	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,2-Dichloropropane	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,3-Dichlorobenzene	ND	D08	4.0	1.4	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,4-Dichlorobenzene	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
1,4-Dioxane	ND	D08	160	160	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
2-Butanone (MEK)	ND	D08	20	5.3	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
2-Hexanone	ND	D08	20	5.0	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
4-Methyl-2-pentanone (MIBK)	ND	D08	20	3.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Acetone	ND	D08	20	5.4	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Benzene	8.5	D08	4.0	1.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Bromochloromethane	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Bromodichloromethane	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Bromoform	ND	D08	4.0	1.0	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Bromomethane	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Carbon disulfide	ND	D08	4.0	0.78	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Carbon Tetrachloride	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Chlorobenzene	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Dibromochloromethane	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Chloroethane	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Chloroform	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Chloromethane	ND	D08	4.0	1.4	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
cis-1,2-Dichloroethene	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
cis-1,3-Dichloropropene	ND	D08	4.0	1.4	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Cyclohexane	170	D08	4.0	2.1	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Dichlorodifluoromethane	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Ethylbenzene	270	D08	4.0	0.74	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Isopropylbenzene	63	D08	4.0	0.77	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Methyl Acetate	ND	D08	4.0	2.0	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Methyl tert-Butyl Ether	ND	D08	4.0	0.64	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Methylcyclohexane	97	D08	4.0	2.0	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Methylene Chloride	ND	D08	4.0	1.8	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
m,p-Xylene	340	D08	8.0	2.6	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
o-Xylene	14	D08	4.0	1.4	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Styrene	ND	D08	4.0	0.74	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Tetrachloroethene	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	
Toluene	17	D08	4.0	2.0	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B	

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-16 (W6 - Ground Water) - cont.

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND	D08	4.0	1.7	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
trans-1,3-Dichloropropene	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Trichloroethene	ND	D08	4.0	1.8	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Trichlorofluoromethane	ND	D08	4.0	0.61	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Vinyl chloride	ND	D08	4.0	0.97	ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
1,2-Dichloroethane-d4	86 %	D08	Surr Limits: (66-137%)				10/13/09 12:10 DHC	9J13014	8260B
4-Bromofluorobenzene	84 %	D08	Surr Limits: (73-120%)				10/13/09 12:10 DHC	9J13014	8260B
Toluene-d8	84 %	D08	Surr Limits: (71-126%)				10/13/09 12:10 DHC	9J13014	8260B

### Tentatively Identified Compounds by EPA 8260B

1H-Indene, 2,3-dihydro-4-methyl- (000824-22-6)	160	D08,T7	Ret Time: 12.164		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Benzene, 1,2,3-trimethyl- (000526-73-8)	120	D08,T11, T7	Ret Time: 10.78		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Benzene, 1-ethenyl-3-ethyl- (007525-62-4)	120	D08,T7	Ret Time: 11.494		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Benzene, 1-ethyl-2-methyl- (000611-14-3)	130	D08,T7	Ret Time: 10.207		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Benzene, 2-ethyl-1,3-dimethyl- (002870-04-4)	190	D08,T7	Ret Time: 11.384		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Benzene, propyl- (000103-65-1)	190	D08,T7	Ret Time: 9.817		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Butane, 2-methyl- (000078-78-4)	120	D08,T7	Ret Time: 1.965		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Cyclopentane, methyl- (000096-37-7)	170	D08,T7	Ret Time: 4.117		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Indane (000496-11-7)	320	D08,T7	Ret Time: 10.969		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B
Pentane, 2-methyl- (000107-83-5)	200	D08,T7	Ret Time: 3.044		ug/L	4.00	10/13/09 12:10 DHC	9J13014	8260B

### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.8	0.78	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.8	2.0	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.8	0.94	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.8	0.95	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.8	0.75	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.8	0.92	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.8	0.49	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.8	0.080	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2-Chlorophenol	ND		4.8	0.48	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2-Methylnaphthalene	19		4.8	0.078	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2-Methylphenol	ND		4.8	0.22	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2-Nitrophenol	ND		4.8	0.57	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-16 (W6 - Ground Water) - cont.

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

#### Semivolatile Organics by GC/MS - cont.

4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Bromophenyl phenyl ether	ND		4.8	0.86	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.8	0.57	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Chloroaniline	ND		4.8	0.31	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.8	0.16	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Acenaphthene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Acenaphthylene	ND		4.8	0.045	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Acetophenone	ND		4.8	0.97	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Anthracene	ND		4.8	0.053	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Atrazine	ND		4.8	1.0	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Benzaldehyde	ND		4.8	0.25	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.8	0.061	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.8	0.087	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Benzo[b]fluoranthene	ND		4.8	0.060	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.8	0.074	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.8	0.063	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
1,1'-Biphenyl	0.68	J	4.8	0.62	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.8	0.36	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.8	0.17	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropane]	ND		3.8	3.8	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.8	4.5	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.8	1.7	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Caprolactam	ND		4.8	4.4	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Carbazole	ND		4.8	0.085	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Chrysene	ND		4.8	0.26	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.8	0.19	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Diethyl phthalate	0.30	J, B	4.8	0.10	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.8	0.29	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Di-n-butyl phthalate	0.53	J	4.8	0.28	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.8	0.23	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Fluoranthene	ND		4.8	0.093	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Fluorene	0.31	J	4.8	0.070	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.8	0.42	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.8	2.5	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.8	2.4	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Hexachloroethane	ND		4.8	2.7	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.8	0.15	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Isophorone	ND		4.8	0.30	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Naphthalene	72		4.8	0.11	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Nitrobenzene	ND		4.8	0.51	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C

TestAmerica Buffalo

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-16 (W6 - Ground Water) - cont.

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

### Semivolatile Organics by GC/MS - cont.

N-Nitrosodi-n-propylamine	ND		4.8	0.43	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.8	0.25	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Phenanthrene	ND		4.8	0.11	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Phenol	ND		4.8	0.42	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Pyrene	ND		4.8	0.065	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
2,4,6-Tribromophenol	105 %		Surr Limits: (52-132%)				10/13/09 20:59 MKP	9J12044	8270C
2-Fluorobiphenyl	93 %		Surr Limits: (48-120%)				10/13/09 20:59 MKP	9J12044	8270C
2-Fluorophenol	43 %		Surr Limits: (20-120%)				10/13/09 20:59 MKP	9J12044	8270C
Nitrobenzene-d5	97 %		Surr Limits: (46-120%)				10/13/09 20:59 MKP	9J12044	8270C
Phenol-d5	29 %		Surr Limits: (16-120%)				10/13/09 20:59 MKP	9J12044	8270C
p-Terphenyl-d14	83 %		Surr Limits: (24-136%)				10/13/09 20:59 MKP	9J12044	8270C

### Semivolatile Organics TICs by GC/MS

Benzene, propyl- (000103-65-1)	90	T7	Ret Time: 5.157	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Ethylbenzene (100-41-4)	220	T7	Ret Time: 3.917	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
	52	T7	Ret Time: 4.777	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
	51	T7	Ret Time: 5.285	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
	80	T7	Ret Time: 5.46	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
	110	T7	Ret Time: 5.983	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
	71	T7	Ret Time: 6.231	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
	28	T7	Ret Time: 6.925	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown01 (none)	23	T7, B	Ret Time: 3.153	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown02 (none)	140	T7, B	Ret Time: 6.118	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown03 (none)	82	T7, B	Ret Time: 6.321	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown04 (none)	31	T7, B	Ret Time: 6.423	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown05 (none)	41	T7, B	Ret Time: 7.246	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown06 (none)	77	T7, B	Ret Time: 12.791	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown07 (none)	42	T7, B	Ret Time: 13.808	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown08 (none)	25	T7, B	Ret Time: 14.201	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown09 (none)	29	T7, B	Ret Time: 14.34	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown10 (none)	55	T7, B	Ret Time: 14.938	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown11 (none)	40	T7, B	Ret Time: 14.97	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C
Unknown12 (none)	36	T7, B	Ret Time: 15.088	ug/L	1.00	10/13/09 20:59 MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.047	0.016	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
4,4'-DDE [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
4,4'-DDT [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
Aldrin [2C]	ND		0.047	0.0062	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
alpha-BHC [2C]	0.024	J	0.047	0.0062	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND		0.047	0.014	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
beta-BHC [2C]	ND		0.047	0.023	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
delta-BHC [2C]	0.024	J	0.047	0.0095	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A
Dieldrin [2C]	ND		0.047	0.018	ug/L	1.00	10/14/09 05:25 DGB	9J09108	8081A

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DIL Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-16 (W6 - Ground Water) - cont.

Sampled: 10/07/09 18:30

Recvd: 10/09/09 09:20

### Organochlorine Pesticides by EPA Method 8081A - cont.

Endosulfan I [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Endosulfan II [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Endrin [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Endrin aldehyde [2C]	ND		0.047	0.015	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Endrin ketone [2C]	ND		0.047	0.011	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	ND		0.047	0.0057	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
gamma-Chlordane [2C]	ND		0.047	0.010	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Heptachlor [2C]	ND		0.047	0.0080	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Heptachlor epoxide [2C]	0.021	J	0.047	0.0050	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Methoxychlor [2C]	ND		0.047	0.013	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A
Toxaphene [2C]	ND		0.47	0.11	ug/L	1.00	10/14/09 05:25	DGB	9J09108	8081A

Decachlorobiphenyl [2C]	37 %		Surr Limits: (15-139%)				10/14/09 05:25	DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	53 %		Surr Limits: (30-139%)				10/14/09 05:25	DGB	9J09108	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.47	0.17	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1221	ND		0.47	0.17	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1232	ND		0.47	0.17	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1242	ND		0.47	0.17	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1248	ND		0.47	0.17	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1254	ND		0.47	0.24	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1260	ND		0.47	0.24	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1262	ND		0.47	0.24	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082
Aroclor 1268	ND		0.47	0.24	ug/L	1.00	10/12/09 03:48	JxM	9J09109	8082

Decachlorobiphenyl	52 %		Surr Limits: (12-137%)				10/12/09 03:48	JxM	9J09109	8082
Tetrachloro-m-xylene	68 %		Surr Limits: (35-121%)				10/12/09 03:48	JxM	9J09109	8082

### Total Metals by SW 846 Series Methods

Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Arsenic	0.0091	J	0.0100	0.0056	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Barium	0.0778		0.0020	0.0003	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Calcium	38.5		0.5	0.1	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Iron	7.53		0.050	0.019	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Magnesium	8.65		0.200	0.043	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Manganese	2.03		0.0030	0.0002	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Potassium	2.12		0.500	0.050	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Sodium	171		1.0	0.3	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643  
Project: Clabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

**Analytical Report**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-16 (W6 - Ground Water) - cont.						Sampled: 10/07/09 18:30		Recvd: 10/09/09 09:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Zinc	ND		0.0100	0.0015	mg/L	1.00	10/13/09 17:10	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:09	MXM	9J17027	7470A
<u>General Chemistry Parameters</u>										
Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A

A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-17 (W7 - Ground Water)						Sampled: 10/08/09 08:45		Recvd: 10/09/09 09:20		
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
m,p-Xylene	ND		2.0	0.66	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B
Toluene	0.69	J	1.0	0.51	ug/L	1.00	10/13/09 05:17	NMD	9J12089	8260B

TestAmerica Buffalo

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-17 (W7 - Ground Water) - cont.

Sampled: 10/08/09 08:45 Recvd: 10/09/09 09:20

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 05:17 NMD	9J12089	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 05:17 NMD	9J12089	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 05:17 NMD	9J12089	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 05:17 NMD	9J12089	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 05:17 NMD	9J12089	8260B

1,2-Dichloroethane-d4	89 %	Surr Limits: (66-137%)					10/13/09 05:17 NMD	9J12089	8260B
4-Bromofluorobenzene	99 %	Surr Limits: (73-120%)					10/13/09 05:17 NMD	9J12089	8260B
Toluene-d8	99 %	Surr Limits: (71-126%)					10/13/09 05:17 NMD	9J12089	8260B

### Tentatively Identified Compounds by EPA 8260B

No TICs found (NOTICS)	ND	T7			ug/L	1.00	10/13/09 05:17 NMD	9J12089	8260B
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### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.7	0.77	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.7	2.0	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.7	0.75	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.7	0.91	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.7	0.48	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.7	0.080	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2-Chlorophenol	ND		4.7	0.48	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2-Methylnaphthalene	ND		4.7	0.078	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2-Methylphenol	ND		4.7	0.22	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2-Nitrophenol	ND		4.7	0.57	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.7	0.35	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Bromophenyl phenyl ether	ND		4.7	0.85	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.7	0.56	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Chloroaniline	ND		4.7	0.31	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.7	0.16	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Methylphenol	ND		9.5	0.55	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Acenaphthene	ND		4.7	0.11	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Acenaphthylene	ND		4.7	0.045	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Acetophenone	ND		4.7	0.97	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Anthracene	ND		4.7	0.053	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Atrazine	ND		4.7	1.0	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Benzaldehyde	ND		4.7	0.25	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.7	0.061	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.7	0.086	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643  
Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-17 (W7 - Ground Water) - cont.						Sampled: 10/08/09 08:45 Recvd: 10/09/09 09:20				

#### Semivolatile Organics by GC/MS - cont.

Benzo[b]fluoranthene	ND		4.7	0.060	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.7	0.074	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.7	0.063	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
1,1'-Biphenyl	ND		4.7	0.62	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.7	0.36	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.7	0.17	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropene]	ND		3.8	3.8	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.7	4.5	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.7	1.6	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Caprolactam	ND		4.7	4.4	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Carbazole	ND		4.7	0.084	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Chrysene	ND		4.7	0.26	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.7	0.19	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Dibenzofuran	ND		9.5	1.5	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Diethyl phthalate	0.47	J, B	4.7	0.10	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.7	0.28	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Di-n-butyl phthalate	ND		4.7	0.28	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.7	0.23	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Fluoranthene	ND		4.7	0.093	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Fluorene	ND		4.7	0.070	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.7	0.42	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.7	2.5	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.7	2.4	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Hexachloroethane	ND		4.7	2.7	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.7	0.15	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Isophorone	ND		4.7	0.30	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Naphthalene	ND		4.7	0.11	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Nitrobenzene	ND		4.7	0.51	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
N-Nitrosodi-n-propylamine	ND		4.7	0.43	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.7	0.25	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Phenanthrene	ND		4.7	0.11	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Phenol	ND		4.7	0.42	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
Pyrene	ND		4.7	0.064	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
2,4,6-Tribromophenol	115 %		Surr Limits: (52-132%)				10/13/09 21:24 MKP	9J12044	8270C
2-Fluorobiphenyl	95 %		Surr Limits: (48-120%)				10/13/09 21:24 MKP	9J12044	8270C
2-Fluorophenol	40 %		Surr Limits: (20-120%)				10/13/09 21:24 MKP	9J12044	8270C
Nitrobenzene-d5	92 %		Surr Limits: (46-120%)				10/13/09 21:24 MKP	9J12044	8270C
Phenol-d5	28 %		Surr Limits: (16-120%)				10/13/09 21:24 MKP	9J12044	8270C
p-Terphenyl-d14	96 %		Surr Limits: (24-136%)				10/13/09 21:24 MKP	9J12044	8270C

#### Semivolatile Organics TICs by GC/MS

2-Pentanone,	9.3	T7	Rel Time: 4.558	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C
4-methoxy-4-methyl-(000107-70-0)								
Unknown01 (none)	15	T7, B	Rel Time: 3.57	ug/L	1.00	10/13/09 21:24 MKP	9J12044	8270C

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-17 (W7 - Ground Water) - cont.

Sampled: 10/08/09 08:45 Recvd: 10/09/09 09:20

### Semivolatile Organics TICs by GC/MS - cont.

Unknown02 (none)	4.0	T7, B	Ret Time: 11.776		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown03 (none)	14	T7, B	Ret Time: 12.657		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown04 (none)	48	T7, B	Ret Time: 12.786		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown05 (none)	15	T7, B	Ret Time: 13.485		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown06 (none)	11	T7, B	Ret Time: 13.512		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown07 (none)	40	T7, B	Ret Time: 13.61		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown08 (none)	60	T7, B	Ret Time: 13.635		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown09 (none)	21	T7, B	Ret Time: 14.201		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown10 (none)	10	T7, B	Ret Time: 14.223		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown11 (none)	27	T7, B	Ret Time: 14.34		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown12 (none)	47	T7, B	Ret Time: 14.938		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
UNKNOWN13 (none)	20	T7, B	Ret Time: 14.97		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown14 (none)	4.6	T7, B	Ret Time: 15.73		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown15 (none)	10	T7, B	Ret Time: 15.772		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown16 (none)	9.8	T7, B	Ret Time: 15.815		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C
Unknown17 (none)	5.0	T7, B	Ret Time: 16.91		ug/L	1.00	10/13/09 21:24 MKP	9J12044		8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.048	0.016	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
4,4'-DDE [2C]	ND		0.048	0.011	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
4,4'-DDT [2C]	ND		0.048	0.010	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Aldrin [2C]	ND		0.048	0.0063	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
alpha-BHC [2C]	ND		0.048	0.0063	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
alpha-Chlordane [2C]	ND		0.048	0.014	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
beta-BHC [2C]	ND		0.048	0.024	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
delta-BHC [2C]	ND		0.048	0.0096	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Dieldrin [2C]	ND		0.048	0.019	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Endosulfan I [2C]	ND		0.048	0.010	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Endosulfan II [2C]	ND		0.048	0.011	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Endosulfan sulfate [2C]	ND		0.048	0.015	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Endrin [2C]	ND		0.048	0.013	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Endrin aldehyde [2C]	ND		0.048	0.016	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Endrin ketone [2C]	ND		0.048	0.011	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
gamma-BHC (Lindane) [2C]	ND		0.048	0.0057	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
gamma-Chlordane [2C]	ND		0.048	0.010	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Heptachlor [2C]	ND		0.048	0.0081	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Heptachlor epoxide [2C]	0.042	J	0.048	0.0050	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Methoxychlor [2C]	ND		0.048	0.013	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A
Toxaphene [2C]	ND		0.48	0.11	ug/L	1.00	10/15/09 13:12 DGB	9J09108		8081A

Decachlorobiphenyl [2C]	88 %		Surr Limits: (15-139%)				10/15/09 13:12 DGB	9J09108		8081A
Tetrachloro-m-xylene [2C]	66 %		Surr Limits: (30-139%)				10/15/09 13:12 DGB	9J09108		8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.48	0.17	ug/L	1.00	10/12/09 04:03 JxM	9J09109		8082
Aroclor 1221	ND		0.48	0.17	ug/L	1.00	10/12/09 04:03 JxM	9J09109		8082

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643  
Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-17 (W7 - Ground Water) - cont.						Sampled: 10/08/09 08:45		Recvd: 10/09/09 09:20		

### Polychlorinated Biphenyls by EPA Method 8082 - cont.

Aroclor 1232	ND		0.48	0.17	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Aroclor 1242	ND		0.48	0.17	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Aroclor 1248	ND		0.48	0.17	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Aroclor 1254	ND		0.48	0.24	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Aroclor 1260	ND		0.48	0.24	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Aroclor 1262	ND		0.48	0.24	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Aroclor 1268	ND		0.48	0.24	ug/L	1.00	10/12/09 04:03	JxM	9J09109	8082
Decachlorobiphenyl	97 %		Surr Limits: (12-137%)				10/12/09 04:03	JxM	9J09109	8082
Tetrachloro-m-xylene	69 %		Surr Limits: (35-121%)				10/12/09 04:03	JxM	9J09109	8082

### Total Metals by SW 846 Series Methods

Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Arsenic	ND		0.0100	0.0058	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Barium	ND		0.0020	0.0003	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Calcium	0.1	J	0.5	0.1	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Iron	ND		0.050	0.019	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Magnesium	ND		0.200	0.043	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Manganese	ND		0.0030	0.0002	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Potassium	ND		0.500	0.050	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Sodium	ND		1.0	0.3	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Zinc	ND		0.0100	0.0015	mg/L	1.00	10/13/09 17:28	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:10	MXM	9J17027	7470A

### General Chemistry Parameters

Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A
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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-18 (W8 - Ground Water)						Sampled: 10/07/09 18:30		Recvd: 10/09/09 09:20		
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>										
1,1,1-Trichloroethane	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,1,2,2-Tetrachloroethane	ND	D08	4.0	0.85	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,1,2-Trichloroethane	ND	D08	4.0	0.92	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	D08	4.0	1.2	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,1-Dichloroethane	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,1-Dichloroethene	ND	D08	4.0	1.2	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2,3-Trichlorobenzene	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2,4-Trichlorobenzene	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2-Dibromo-3-chloropropane	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2-Dibromoethane (EDB)	ND	D08	4.0	0.66	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2-Dichlorobenzene	ND	D08	4.0	0.81	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2-Dichloroethane	ND	D08	4.0	0.86	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,2-Dichloropropane	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,3-Dichlorobenzene	ND	D08	4.0	1.4	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,4-Dichlorobenzene	ND	D08	4.0	1.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
1,4-Dioxane	ND	D08	160	160	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
2-Butanone (MEK)	ND	D08	20	5.3	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
2-Hexanone	ND	D08	20	5.0	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
4-Methyl-2-pentanone (MIBK)	ND	D08	20	3.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Acetone	ND	D08	20	5.4	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Benzene	8.6	D08	4.0	1.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Bromochloromethane	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Bromodichloromethane	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Bromoform	ND	D08	4.0	1.0	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Bromomethane	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Carbon disulfide	ND	D08	4.0	0.78	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Carbon Tetrachloride	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Chlorobenzene	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Dibromochloromethane	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Chloroethane	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Chloroform	ND	D08	4.0	1.3	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Chloromethane	ND	D08	4.0	1.4	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
cis-1,2-Dichloroethene	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
cis-1,3-Dichloropropene	ND	D08	4.0	1.4	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Cyclohexane	160	D08	4.0	2.1	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Dichlorodifluoromethane	ND	D08	4.0	1.1	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Ethylbenzene	260	D08	4.0	0.74	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Isopropylbenzene	60	D08	4.0	0.77	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Methyl Acetate	ND	D08	4.0	2.0	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Methyl tert-Butyl Ether	ND	D08	4.0	0.64	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Methylcyclohexane	87	D08	4.0	2.0	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Methylene Chloride	ND	D08	4.0	1.8	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
m,p-Xylene	330	D08	8.0	2.6	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
o-Xylene	14	D08	4.0	1.4	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Styrene	ND	D08	4.0	0.74	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Tetrachloroethene	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	
Toluene	17	D08	4.0	2.0	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B	

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clablattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-18 (W8 - Ground Water) - cont.						Sampled: 10/07/09 18:30		Recvd: 10/09/09 09:20		

### Volatile Organic Compounds by EPA 8260B - cont.

trans-1,2-Dichloroethene	ND	D08	4.0	1.7	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
trans-1,3-Dichloropropene	ND	D08	4.0	1.5	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Trichloroethene	ND	D08	4.0	1.8	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Trichlorofluoromethane	ND	D08	4.0	0.61	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Vinyl chloride	ND	D08	4.0	0.97	ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
1,2-Dichloroethane-d4	84 %	D08	Surr Limits: (66-137%)				10/13/09 12:33 DHC	9J13014	8260B
4-Bromofluorobenzene	85 %	D08	Surr Limits: (73-120%)				10/13/09 12:33 DHC	9J13014	8260B
Toluene-d8	83 %	D08	Surr Limits: (71-126%)				10/13/09 12:33 DHC	9J13014	8260B

### Tentatively Identified Compounds by EPA 8260B

Benzene, (1-methyl-1-propenyl)-, (E)- (000768-00-3)	160	D08,T7	Ret Time: 12.164		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Benzene, 1-ethyl-2-methyl- (000511-14-3)	130	D08,T7	Ret Time: 10.207		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Benzene, 1-methyl-2- (1-methylethyl)- (000527-84-4)	190	D08,T7	Ret Time: 11.384		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Benzene, propyl- (000103-65-1)	160	D08,T7	Ret Time: 9.823		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Butane, 2-methyl- (000078-78-4)	120	D08,T7	Ret Time: 1.971		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Indan, 1-methyl- (000767-58-8)	120	D08,T7	Ret Time: 11.493		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Pentane, 2-methyl- (000107-83-5)	180	D08,T7	Ret Time: 3.05		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Pentane, 3-methyl- (000096-14-0)	110	D08,T7	Ret Time: 3.288		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Unknown01 (none)	180	D08,T7	Ret Time: 4.123		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B
Unknown02 (none)	310	D08,T7	Ret Time: 10.969		ug/L	4.00	10/13/09 12:33 DHC	9J13014	8260B

### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.7	0.77	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,3,4,6-Tetrachlorophenol	ND		4.7	2.0	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4,5-Trichlorophenol	ND		4.7	0.93	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4,6-Trichlorophenol	ND		4.7	0.94	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4-Dichlorophenol	ND		4.7	0.74	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4-Dimethylphenol	ND		4.7	0.91	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4-Dinitrophenol	ND		9.4	2.1	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,6-Dinitrotoluene	ND		4.7	0.48	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2-Chloronaphthalene	ND		4.7	0.079	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2-Chlorophenol	ND		4.7	0.48	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2-Methylnaphthalene	22		4.7	0.077	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2-Methylphenol	ND		4.7	0.22	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2-Nitroaniline	ND		9.4	0.47	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2-Nitrophenol	ND		4.7	0.57	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
3,3'-Dichlorobenzidine	ND		4.7	0.35	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
3-Nitroaniline	ND		9.4	1.5	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C

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A2L Technologies  
10220 Hamay Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-18 (W8 - Ground Water) - cont.

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

### Semivolatile Organics by GC/MS - cont.

4-Bromophenyl phenyl ether	ND		4.7	0.85	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4-Chloro-3-methylphenol	ND		4.7	0.56	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4-Chloroaniline	ND		4.7	0.31	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4-Chlorophenyl phenyl ether	ND		4.7	0.16	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4-Methylphenol	ND		9.4	0.55	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4-Nitroaniline	ND		9.4	0.43	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
4-Nitrophenol	ND		9.4	1.4	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Acenaphthene	ND		4.7	0.11	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Acenaphthylene	ND		4.7	0.044	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Acetophenone	ND		4.7	0.96	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Anthracene	ND		4.7	0.053	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Atrazine	ND		4.7	1.0	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzaldehyde	ND		4.7	0.25	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzo[a]anthracene	ND		4.7	0.080	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzo[a]pyrene	ND		4.7	0.086	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzo[b]fluoranthene	ND		4.7	0.059	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzo[g,h,i]perylene	ND		4.7	0.074	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzo[k]fluoranthene	ND		4.7	0.062	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
1,1'-Bi(phenyl)	0.69	J	4.7	0.62	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Bis(2-chloroethoxy)methane	ND		4.7	0.35	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Bis(2-chloroethyl)ether	ND		4.7	0.17	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,2'-oxybis[1-chloropropane]	ND		3.8	3.8	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Bis(2-ethylhexyl)phthalate	ND		4.7	4.5	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Butyl benzyl phthalate	ND		4.7	1.8	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Caprolactam	ND		4.7	4.3	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Carbazole	ND		4.7	0.084	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Chrysene	ND		4.7	0.26	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Dibenz[a,h]anthracene	ND		4.7	0.19	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Dibenzofuran	ND		9.4	1.5	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Diethyl phthalate	ND		4.7	0.10	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Dimethyl phthalate	ND		4.7	0.28	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Di-n-butyl phthalate	0.54	J	4.7	0.28	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Di-n-octyl phthalate	ND		4.7	0.23	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Fluoranthene	ND		4.7	0.092	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Fluorene	0.30	J	4.7	0.070	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Hexachlorobenzene	ND		4.7	0.42	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Hexachlorobutadiene	ND		4.7	2.4	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Hexachlorocyclopentadiene	ND		4.7	2.4	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Hexachloroethane	ND		4.7	2.7	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Indeno[1,2,3-cd]pyrene	ND		4.7	0.14	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Isophorone	ND		4.7	0.30	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Naphthalene	76		4.7	0.11	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Nitrobenzene	ND		4.7	0.51	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
N-Nitrosodi-n-propylamine	ND		4.7	0.43	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
N-Nitrosodiphenylamine	ND	L	4.7	0.25	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C

TestAmerica Buffalo

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09

Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-18 (W8 - Ground Water) - cont.

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

### Semivolatile Organics by GC/MS - cont.

Pentachlorophenol	ND		9.4	4.8	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Phenanthrene	0.24	J	4.7	0.11	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Phenol	ND		4.7	0.42	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Pyrene	ND		4.7	0.064	ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
2,4,6-Tribromophenol	114 %		Surr Limits: (52-132%)				10/13/09 21:48 MKP	9J12044	8270C
2-Fluorobiphenyl	97 %		Surr Limits: (48-120%)				10/13/09 21:48 MKP	9J12044	8270C
2-Fluorophenol	41 %		Surr Limits: (20-120%)				10/13/09 21:48 MKP	9J12044	8270C
Nitrobenzene-d5	98 %		Surr Limits: (46-120%)				10/13/09 21:48 MKP	9J12044	8270C
Phenol-d5	29 %		Surr Limits: (16-120%)				10/13/09 21:48 MKP	9J12044	8270C
p-Terphenyl-d14	88 %		Surr Limits: (24-136%)				10/13/09 21:48 MKP	9J12044	8270C

### Semivolatile Organics TICs by GC/MS

Benzene, (1-methylethyl)- (000098-82-8)	48	T7	Ret Time: 4.772		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Benzene, propyl- (000103-65-1)	67	T7	Ret Time: 5.157		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Indane (000496-11-7)	150	T7	Ret Time: 6.118		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown01 (none)	25	T7, B	Ret Time: 3.148		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown02 (none)	81	T7, B	Ret Time: 6.316		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown03 (none)	31	T7, B	Ret Time: 6.423		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown04 (none)	41	T7, B	Ret Time: 7.246		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown05 (none)	79	T7, B	Ret Time: 12.791		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown06 (none)	37	T7, B	Ret Time: 13.608		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown07 (none)	24	T7, B	Ret Time: 14.201		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown08 (none)	28	T7, B	Ret Time: 14.223		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown09 (none)	90	T7, B	Ret Time: 14.34		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown10 (none)	56	T7, B	Ret Time: 14.938		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
Unknown11 (none)	25	T7, B	Ret Time: 14.97		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
UnknownBenzeneDerivative 01 (none)	52	T7	Ret Time: 5.285		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
UnknownBenzeneDerivative 02 (none)	84	T7	Ret Time: 5.461		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
UnknownBenzeneDerivative 03 (none)	120	T7	Ret Time: 5.963		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
UnknownBenzeneDerivative 04 (none)	72	T7	Ret Time: 6.231		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C
UnknownBenzeneDerivative 05 (none)	28	T7	Ret Time: 6.925		ug/L	1.00	10/13/09 21:48 MKP	9J12044	8270C

### Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND		0.047	0.016	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
4,4'-DDE [2C]	ND		0.047	0.011	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
4,4'-DDT [2C]	ND		0.047	0.010	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
Aldrin [2C]	ND		0.047	0.0062	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
alpha-BHC [2C]	0.024	J	0.047	0.0062	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
alpha-Chlordane [2C]	ND		0.047	0.014	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
beta-BHC [2C]	ND		0.047	0.023	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
delta-BHC [2C]	ND		0.047	0.0095	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
Dieldrin [2C]	ND		0.047	0.018	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A
Endosulfan I [2C]	ND		0.047	0.010	ug/L	1.00	10/15/09 13:48 DGB	9J09108	8081A

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DIL Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSJ0643-18 (W8 - Ground Water) - cont.

Sampled: 10/07/09 18:30 Recvd: 10/09/09 09:20

### Organochlorine Pesticides by EPA Method 8081A - cont.

Endosulfan II [2C]	ND		0.047	0.011	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Endosulfan sulfate [2C]	ND		0.047	0.015	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Endrin [2C]	ND		0.047	0.013	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Endrin aldehyde [2C]	ND		0.047	0.015	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Endrin ketone [2C]	ND		0.047	0.011	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
gamma-BHC (Lindane) [2C]	0.017	J	0.047	0.0057	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
gamma-Chlordane [2C]	ND		0.047	0.010	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Heptachlor [2C]	ND		0.047	0.0080	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Heptachlor epoxide [2C]	0.037	J	0.047	0.0050	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Methoxychlor [2C]	ND		0.047	0.013	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Toxaphene [2C]	ND		0.47	0.11	ug/L	1.00	10/15/09 13:48	DGB	9J09108	8081A
Decachlorobiphenyl [2C]	55 %		Surr Limits: (15-139%)				10/15/09 13:48	DGB	9J09108	8081A
Tetrachloro-m-xylene [2C]	66 %		Surr Limits: (30-139%)				10/15/09 13:48	DGB	9J09108	8081A

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		0.47	0.17	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1221	ND		0.47	0.17	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1232	ND		0.47	0.17	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1242	ND		0.47	0.17	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1248	ND		0.47	0.17	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1254	ND		0.47	0.24	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1260	ND		0.47	0.24	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1262	ND		0.47	0.24	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Aroclor 1268	ND		0.47	0.24	ug/L	1.00	10/12/09 04:18	JxM	9J09109	8082
Decachlorobiphenyl	72 %		Surr Limits: (12-137%)				10/12/09 04:18	JxM	9J09109	8082
Tetrachloro-m-xylene	80 %		Surr Limits: (35-121%)				10/12/09 04:18	JxM	9J09109	8082

### Total Metals by SW 846 Series Methods

Aluminum	ND		0.200	0.040	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Antimony	ND		0.0200	0.0068	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Arsenic	0.0087	J	0.0100	0.0056	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Barium	0.0737		0.0020	0.0003	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Beryllium	0.0002	J	0.0020	0.0002	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Calcium	36.5		0.5	0.1	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Copper	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Iron	7.15		0.050	0.019	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Magnesium	8.22		0.200	0.043	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Manganese	1.83		0.0030	0.0002	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Potassium	2.01		0.500	0.050	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Sodium	162		1.0	0.3	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Thallium	ND		0.0200	0.0102	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-18 (W8 - Ground Water) - cont.						Sampled: 10/07/09 18:30		Recvd: 10/09/09 09:20		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Vanadium	ND		0.0050	0.0011	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Zinc	ND		0.0100	0.0015	mg/L	1.00	10/13/09 17:33	DAN	9J12069	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	10/17/09 18:12	MXM	9J17027	7470A
<u>General Chemistry Parameters</u>										
Cyanide	ND	L	0.0100	0.0050	mg/L	1.00	10/16/09 09:27	LRM	9J14038	9012A

A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-19 (TRIP BLANK - Water)						Sampled: 10/08/09		Recvd: 10/09/09 09:20		

#### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2,3-Trichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
1,4-Dioxane	ND		40	40	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Bromochloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Dibromochloromethane	ND		1.0	0.32	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
m,p-Xylene	ND		2.0	0.66	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
o-Xylene	ND		1.0	0.36	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/13/09 06:02 NMD	9J12089	8260B

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	DII Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0643-19 (TRIP BLANK - Water) - cont.						Sampled: 10/08/09		Recvd: 10/09/09 09:20		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/13/09 06:02	NMD	9J12089	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/13/09 06:02	NMD	9J12089	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/13/09 06:02	NMD	9J12089	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/13/09 06:02	NMD	9J12089	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/13/09 06:02	NMD	9J12089	8260B
1,2-Dichloroethane-d4	89 %		Surr Limits: (66-137%)				10/13/09 06:02	NMD	9J12089	8260B
4-Bromofluorobenzene	99 %		Surr Limits: (73-120%)				10/13/09 06:02	NMD	9J12089	8260B
Toluene-d8	98 %		Surr Limits: (71-126%)				10/13/09 06:02	NMD	9J12089	8260B
<u>Tentatively Identified Compounds by EPA 8260B</u>										
No TICs found (NOTICS)	ND	T7			ug/L	1.00	10/13/09 06:02	NMD	9J12089	8260B



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Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
<b>General Chemistry Parameters</b>									
9012A	9J14035	RSJ0643-09	0.50	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-06	0.51	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-07	0.51	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-08	0.52	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-10	0.52	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-05	0.53	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-02	0.53	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-04	0.54	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-01	0.55	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14035	RSJ0643-03	0.57	g	50.00	mL	10/14/09 10:24	AMP	Cn Digestion
9012A	9J14038	RSJ0643-11	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-12	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-13	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-14	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-15	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-16	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-17	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
9012A	9J14038	RSJ0643-18	50.00	mL	50.00	mL	10/14/09 10:30	AMP	Cn Digestion
Dry Weight	9J12049	RSJ0643-01	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-02	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-03	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-04	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-05	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-06	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-07	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-08	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-09	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
Dry Weight	9J12049	RSJ0643-10	10.00	g	10.00	g	10/12/09 10:54	JRR	Dry Weight
<b>Organochlorine Pesticides by EPA Method 8081A</b>									
8081A	9J09108	RSJ0643-15	1,050.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J09108	RSJ0643-17	1,050.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J09108	RSJ0643-14	1,055.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J09108	RSJ0643-11	1,060.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J09108	RSJ0643-12	1,060.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J09108	RSJ0643-13	1,060.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J09108	RSJ0643-16	1,060.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC

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10220 Hamey Road, NE  
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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extract	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
8081A	9J09108	RSJ0643-18	1,060.00	mL	10.00	mL	10/10/09 08:20	BML	3510C GC
8081A	9J10008	RSJ0643-08	30.12	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-05	30.14	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-06	30.17	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-07	30.29	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-03	30.32	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-04	30.41	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-09	30.54	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-10	30.60	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-02	30.61	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
8081A	9J10008	RSJ0643-01	30.99	q	10.00	mL	10/12/09 08:30	CXM	3550B GC
Polychlorinated Biphenyls by EPA Method 8082									
8082	9J09109	RSJ0643-15	1,050.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-17	1,050.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-14	1,055.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-11	1,060.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-12	1,060.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-13	1,060.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-16	1,060.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J09109	RSJ0643-18	1,060.00	mL	10.00	mL	10/10/09 08:22	BML	3510C GC
8082	9J16100	RSJ0643-09	30.21	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-04	30.31	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-05	30.33	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-03	30.46	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-08	30.55	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-01	30.65	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-07	30.67	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-06	30.68	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-10	30.74	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
8082	9J16100	RSJ0643-02	30.76	q	10.00	mL	10/17/09 08:00	EKD	3550B GC
Semivolatile Organics by GC/MS									
8270C	9J13065	RSJ0643-06	30.05	q	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-07	30.19	q	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-04	30.26	q	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-09	30.32	q	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-08	30.37	q	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-10	30.42	q	1.00	mL	10/14/09 09:15	EKD	3550B MB

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10220 Harney Road, NE  
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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Clabattani Brownfield Site  
Project Number: 48001559-2

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
8270C	9J13065	RSJ0643-01	30.52	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-02	30.55	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-03	30.84	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-05	30.87	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J12044	RSJ0643-13	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-14	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-15	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-16	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-11	1,055.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-12	1,055.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-17	1,055.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-18	1,060.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
Semivolatile Organics TICs by GC/MS									
8270C	9J13065	RSJ0643-06	30.05	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-07	30.19	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-04	30.26	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-09	30.32	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-08	30.37	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-10	30.42	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-01	30.52	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-02	30.55	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-03	30.84	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J13065	RSJ0643-05	30.87	g	1.00	mL	10/14/09 09:15	EKD	3550B MB
8270C	9J12044	RSJ0643-13	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-14	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-15	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-16	1,050.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-11	1,055.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-12	1,055.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-17	1,055.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
8270C	9J12044	RSJ0643-18	1,060.00	mL	1.00	mL	10/12/09 16:00	KMB	3510C MB
Tentatively Identified Compounds by EPA 8260B									
8260B	9J13014	RSJ0643-16	5.00	mL	5.00	mL	10/13/09 10:59	DHC	5030B MS
8260B	9J13014	RSJ0643-18	5.00	mL	5.00	mL	10/13/09 10:59	DHC	5030B MS
8260B	9J12089	RSJ0643-11	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-12	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-13	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

**SAMPLE EXTRACTION DATA**

Parameter	Batch	Lab Number	Wt/Vol Extract	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
8260B	9J12089	RSJ0643-14	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-15	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-17	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-19	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J10019	RSJ0643-04	1.03	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-01	5.00	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-06	5.01	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-05	5.03	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-10	5.03	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-03	5.04	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-02	5.10	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-07	5.11	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-08	5.11	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
8260B	9J10019	RSJ0643-09	5.13	g	5.00	mL	10/10/09 12:18	TRB	5030B MS
Total Metals by SW 846 Series Methods									
6010B	9J12069	RSJ0643-11	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-12	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-13	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-14	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-15	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-16	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-17	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J12069	RSJ0643-18	50.00	mL	50.00	mL	10/13/09 09:15	KCW	3005A
6010B	9J15055	RSJ0643-10	0.47	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-09	0.47	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-04	0.48	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-01	0.49	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-03	0.49	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-05	0.50	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-07	0.50	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-08	0.52	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-06	0.53	g	50.00	mL	10/15/09 14:10	KCW	3050B
6010B	9J15055	RSJ0643-02	0.54	g	50.00	mL	10/15/09 14:10	KCW	3050B
7470A	9J17027	RSJ0643-11	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7470A	9J17027	RSJ0643-12	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7470A	9J17027	RSJ0643-13	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7470A	9J17027	RSJ0643-14	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A

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10220 Harney Road, NE  
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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

**SAMPLE EXTRACTION DATA**

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
7470A	9J17027	RSJ0643-15	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7470A	9J17027	RSJ0643-16	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7470A	9J17027	RSJ0643-17	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7470A	9J17027	RSJ0643-18	30.00	mL	50.00	mL	10/17/09 14:45	MXM	7470A
7471A	9J19064	RSJ0643-01	0.58	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-05	0.59	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-03	0.59	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-09	0.60	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-04	0.60	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-02	0.61	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-10	0.61	g	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-07	0.62	q	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-06	0.64	q	50.00	mL	10/20/09 12:30	MXM	7471A_
7471A	9J19064	RSJ0643-08	0.65	q	50.00	mL	10/20/09 12:30	MXM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9J13014	RSJ0643-16	5.00	mL	5.00	mL	10/13/09 10:59	DHC	5030B MS
8260B	9J13014	RSJ0643-18	5.00	mL	5.00	mL	10/13/09 10:59	DHC	5030B MS
8260B	9J12089	RSJ0643-11	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-12	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-13	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-14	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-15	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-17	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J12089	RSJ0643-19	5.00	mL	5.00	mL	10/12/09 20:28	NMD	5030B MS
8260B	9J10019	RSJ0643-04	1.03	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-01	5.00	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-06	5.01	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-05	5.03	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-10	5.03	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-03	5.04	g	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-02	5.10	g	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-07	5.11	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-08	5.11	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS
8260B	9J10019	RSJ0643-09	5.13	q	5.00	mL	10/10/09 12:18	PJQ	5030B MS

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Work Order: RSJ0643

Received: 10/09/09  
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Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
Blank Analyzed: 10/10/09 (Lab Number:9J10019-BLK1, Batch: 9J10019)											
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND					
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND					
1,1,2-Trichloro-1,2,2-trifluoroethane			5.0	2.5	ug/kg wet	ND					
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,1-Dichloroethene			5.0	0.61	ug/kg wet	ND					
1,2,3-Trichlorobenzene			5.0	0.53	ug/kg wet	ND					
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane			5.0	2.5	ug/kg wet	ND					
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND					
1,2-Dichlorobenzene			5.0	0.39	ug/kg wet	ND					
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,2-Dichloropropane			5.0	2.5	ug/kg wet	ND					
1,3-Dichlorobenzene			5.0	0.26	ug/kg wet	ND					
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND					
1,4-Dioxane			200	24	ug/kg wet	ND					
2-Butanone (MEK)			25	1.8	ug/kg wet	ND					
2-Hexanone			25	1.7	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND					
Acetone			25	1.1	ug/kg wet	ND					
Benzene			5.0	0.24	ug/kg wet	ND					
Bromochloromethane			5.0	0.36	ug/kg wet	ND					
Bromodichloromethane			5.0	0.26	ug/kg wet	ND					
Bromoform			5.0	2.5	ug/kg wet	ND					
Bromomethane			5.0	1.1	ug/kg wet	ND					
Carbon disulfide			5.0	0.43	ug/kg wet	ND					
Carbon Tetrachloride			5.0	0.48	ug/kg wet	ND					
Chlorobenzene			5.0	0.66	ug/kg wet	ND					
Dibromochloromethane			5.0	0.28	ug/kg wet	ND					
Chloroethane			5.0	2.1	ug/kg wet	ND					
Chloroform			5.0	0.31	ug/kg wet	ND					
Chloromethane			5.0	0.30	ug/kg wet	ND					
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND					
cis-1,3-Dichloropropene			5.0	0.28	ug/kg wet	ND					
Cyclohexane			5.0	0.23	ug/kg wet	ND					

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Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Volatile Organic Compounds by EPA 8260B

Blank Analyzed: 10/10/09 (Lab Number: 9J10019-BLK1, Batch: 9J10019)

Dichlorodifluoromethane	5.0	0.41	ug/kg wet	ND
Ethylbenzene	5.0	0.34	ug/kg wet	ND
Isopropylbenzene	5.0	0.75	ug/kg wet	ND
Methyl Acetate	5.0	0.27	ug/kg wet	ND
Methyl tert-Butyl Ether	5.0	0.49	ug/kg wet	ND
Methylcyclohexane	5.0	0.32	ug/kg wet	ND
Methylene Chloride	5.0	0.99	ug/kg wet	ND
m-Xylene & p-Xylene	10	0.84	ug/kg wet	ND
o-Xylene	5.0	0.65	ug/kg wet	ND
Styrene	5.0	0.25	ug/kg wet	ND
Tetrachloroethene	5.0	0.67	ug/kg wet	ND
Toluene	5.0	0.38	ug/kg wet	ND
trans-1,2-Dichloroethene	5.0	0.52	ug/kg wet	ND
trans-1,3-Dichloropropene	5.0	0.24	ug/kg wet	ND
Trichloroethene	5.0	0.34	ug/kg wet	ND
Trichlorofluoromethane	5.0	0.47	ug/kg wet	ND
Vinyl chloride	10	0.61	ug/kg wet	ND

Surrogate: 1,2-Dichloroethane-d4	ug/kg wet	95	64-126
Surrogate: 4-Bromofluorobenzene	ug/kg wet	112	72-126
Surrogate: Toluene-d8	ug/kg wet	114	71-125

LCS Analyzed: 10/10/09 (Lab Number: 9J10019-BS1, Batch: 9J10019)

1,1,1-Trichloroethane	5.0	0.36	ug/kg wet	ND	77-121		
1,1,2,2-Tetrachloroethane	5.0	0.81	ug/kg wet	ND	80-120		
1,1,2-Trichloroethane	5.0	0.25	ug/kg wet	ND	78-122		
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	2.5	ug/kg wet	ND	60-140		
1,1-Dichloroethane	5.0	0.25	ug/kg wet	ND	79-126		
1,1-Dichloroethene	50.0	5.0	0.61	ug/kg wet	66.7	133	65-153
1,2,3-Trichlorobenzene	5.0	0.53	ug/kg wet	ND	60-120		
1,2,4-Trichlorobenzene	5.0	0.30	ug/kg wet	ND	64-120		
1,2-Dibromo-3-chloropropane	5.0	2.5	ug/kg wet	ND	63-124		
1,2-Dibromoethane (EDB)	5.0	0.19	ug/kg wet	ND	78-120		
1,2-Dichlorobenzene	5.0	0.39	ug/kg wet	ND	75-120		
1,2-Dichloroethane	5.0	0.25	ug/kg wet	ND	77-122		
1,2-Dichloropropane	5.0	2.5	ug/kg wet	ND	75-124		

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Volatile Organic Compounds by EPA 8260B</b>											
LCS Analyzed: 10/10/09 (Lab Number: 9J10019-BS1, Batch: 9J10019)											
1,3-Dichlorobenzene			5.0	0.26	ug/kg wet	ND		74-120			
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND		73-120			
2-Butanone (MEK)			25	1.8	ug/kg wet	ND		70-134			
2-Hexanone			25	1.7	ug/kg wet	ND		59-130			
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND		65-133			
Acetone			25	1.1	ug/kg wet	ND		61-137			
Benzene		50.0	5.0	0.24	ug/kg wet	50.2	100	79-127			
Bromochloromethane			5.0	0.36	ug/kg wet	ND		75-134			
Bromodichloromethane			5.0	0.26	ug/kg wet	ND		80-122			
Bromoform			5.0	2.5	ug/kg wet	ND		88-128			
Bromomethane			5.0	1.1	ug/kg wet	ND		37-149			
Carbon disulfide			5.0	0.43	ug/kg wet	ND		64-131			
Carbon Tetrachloride			5.0	0.48	ug/kg wet	ND		75-135			
Chlorobenzene		50.0	5.0	0.66	ug/kg wet	50.8	102	76-124			
Dibromochloromethane			5.0	0.28	ug/kg wet	ND		76-125			
Chloroethane			5.0	2.1	ug/kg wet	ND		69-135			
Chloroform			5.0	0.31	ug/kg wet	ND		80-118			
Chloromethane			5.0	0.30	ug/kg wet	ND		63-127			
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND		81-117			
cis-1,3-Dichloropropene			5.0	0.28	ug/kg wet	ND		82-120			
Cyclohexane			5.0	0.23	ug/kg wet	4.89		70-130			J
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND		57-142			
Ethylbenzene			5.0	0.34	ug/kg wet	ND		80-120			
Isopropylbenzene			5.0	0.75	ug/kg wet	ND		72-120			
Methyl Acetate			5.0	0.27	ug/kg wet	ND		60-140			
Methyl tert-Butyl Ether			5.0	0.49	ug/kg wet	ND		63-125			
Methylcyclohexane			5.0	0.32	ug/kg wet	ND		60-140			
Methylene Chloride			5.0	0.99	ug/kg wet	ND		61-127			
m-Xylene & p-Xylene			10	0.84	ug/kg wet	ND		70-130			
o-Xylene			5.0	0.65	ug/kg wet	ND		70-130			
Styrene			5.0	0.25	ug/kg wet	ND		80-120			
Tetrachloroethene			5.0	0.67	ug/kg wet	ND		74-122			
Toluene		50.0	5.0	0.38	ug/kg wet	51.1	102	74-128			
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND		78-126			
trans-1,3-Dichloropropene			5.0	0.24	ug/kg wet	ND		73-123			
Trichloroethene		50.0	5.0	0.34	ug/kg wet	51.2	102	77-129			
Trichlorofluoromethane			5.0	0.47	ug/kg wet	ND		65-146			

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Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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Volatile Organic Compounds by EPA 8260B

LCS Analyzed: 10/10/09 (Lab Number: 9J10019-BS1, Batch: 9J10019)

Vinyl chloride	10	0.61	ug/kg wet	ND	61-133
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Surrogate:			ug/kg wet	96	64-126
1,2-Dichloroethane-d4			ug/kg wet	109	72-126
Surrogate:			ug/kg wet	112	71-125
4-Bromofluorobenzene			ug/kg wet		
Surrogate: Toluene-d8			ug/kg wet		

Volatile Organic Compounds by EPA 8260B

Blank Analyzed: 10/12/09 (Lab Number: 9J12089-BLK1, Batch: 9J12089)

1,1,1-Trichloroethane	1.0	0.26	ug/L	ND
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L	ND
1,1,2-Trichloroethane	1.0	0.23	ug/L	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.31	ug/L	ND
1,1-Dichloroethane	1.0	0.38	ug/L	ND
1,1-Dichloroethene	1.0	0.29	ug/L	ND
1,2,3-Trichlorobenzene	1.0	0.41	ug/L	ND
1,2,4-Trichlorobenzene	1.0	0.41	ug/L	ND
1,2-Dibromo-3-chloropropane	1.0	0.39	ug/L	ND
1,2-Dibromoethane (EDB)	1.0	0.17	ug/L	ND
1,2-Dichlorobenzene	1.0	0.20	ug/L	ND
1,2-Dichloroethane	1.0	0.21	ug/L	ND
1,2-Dichloropropane	1.0	0.33	ug/L	ND
1,3-Dichlorobenzene	1.0	0.36	ug/L	ND
1,4-Dichlorobenzene	1.0	0.39	ug/L	ND
1,4-Dioxane	40	9.3	ug/L	ND
2-Butanone (MEK)	5.0	1.3	ug/L	ND
2-Hexanone	5.0	1.2	ug/L	ND
4-Methyl-2-pentanone (MIBK)	5.0	0.91	ug/L	ND
Acetone	5.0	1.3	ug/L	ND
Benzene	1.0	0.41	ug/L	ND
Bromochloromethane	1.0	0.39	ug/L	ND
Bromodichloromethane	1.0	0.39	ug/L	ND
Bromoform	1.0	0.26	ug/L	ND
Bromomethane	1.0	0.28	ug/L	ND
Carbon disulfide	1.0	0.19	ug/L	ND
Carbon Tetrachloride	1.0	0.27	ug/L	ND

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Received: 10/09/09  
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Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											

Blank Analyzed: 10/12/09 (Lab Number:9J12089-BLK1, Batch: 9J12089)

Chlorobenzene	1.0	0.32	ug/L	ND
Dibromochloromethane	1.0	0.32	ug/L	ND
Chloroethane	1.0	0.32	ug/L	ND
Chloroform	1.0	0.34	ug/L	ND
Chloromethane	1.0	0.35	ug/L	ND
cis-1,2-Dichloroethene	1.0	0.38	ug/L	ND
cis-1,3-Dichloropropene	1.0	0.36	ug/L	ND
Cyclohexane	1.0	0.53	ug/L	ND
Dichlorodifluoromethane	1.0	0.29	ug/L	ND
Ethylbenzene	1.0	0.18	ug/L	ND
Isopropylbenzene	1.0	0.19	ug/L	ND
Methyl Acetate	1.0	0.50	ug/L	ND
Methyl tert-Butyl Ether	1.0	0.16	ug/L	ND
Methylcyclohexane	1.0	0.50	ug/L	ND
Methylene Chloride	1.0	0.44	ug/L	ND
m,p-Xylene	2.0	0.66	ug/L	ND
o-Xylene	1.0	0.36	ug/L	ND
Styrene	1.0	0.18	ug/L	ND
Tetrachloroethene	1.0	0.36	ug/L	ND
Toluene	1.0	0.51	ug/L	ND
trans-1,2-Dichloroethene	1.0	0.42	ug/L	ND
trans-1,3-Dichloropropene	1.0	0.37	ug/L	ND
Trichloroethene	1.0	0.46	ug/L	ND
Trichlorofluoromethane	1.0	0.15	ug/L	ND
Vinyl chloride	1.0	0.24	ug/L	ND

Surrogate:	ug/L	93	66-137
1,2-Dichloroethane-d4			
Surrogate:	ug/L	95	73-120
4-Bromofluorobenzene			
Surrogate: Toluene-d8	ug/L	96	71-126

LCS Analyzed: 10/12/09 (Lab Number:9J12089-BS1, Batch: 9J12089)

1,1,1-Trichloroethane	25.0	1.0	0.26	ug/L	24.8	99	73-126
1,1,2,2-Tetrachloroethane	25.0	1.0	0.21	ug/L	23.8	95	70-126
1,1,2-Trichloroethane	25.0	1.0	0.23	ug/L	22.8	91	76-122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0	0.31	ug/L	23.0	92	60-140
1,1-Dichloroethane	25.0	1.0	0.38	ug/L	25.4	101	71-129
1,1-Dichloroethene	25.0	1.0	0.29	ug/L	25.4	102	65-138

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Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Volatile Organic Compounds by EPA 8260B</b>											
<b>LCS Analyzed: 10/12/09 (Lab Number: 9J12089-BS1, Batch: 9J12089)</b>											
1,2,3-Trichlorobenzene		25.0	1.0	0.41	ug/L	23.6	94	64-121			
1,2,4-Trichlorobenzene		25.0	1.0	0.41	ug/L	24.1	96	70-122			
1,2-Dibromo-3-chloropropane		25.0	1.0	0.39	ug/L	20.2	81	56-134			
1,2-Dibromoethane (EDB)		25.0	1.0	0.17	ug/L	22.5	90	77-120			
1,2-Dichlorobenzene		25.0	1.0	0.20	ug/L	23.2	93	77-120			
1,2-Dichloroethane		25.0	1.0	0.21	ug/L	21.6	86	75-127			
1,2-Dichloropropane		25.0	1.0	0.33	ug/L	24.1	97	76-120			
1,3-Dichlorobenzene		25.0	1.0	0.36	ug/L	23.2	93	77-120			
1,4-Dichlorobenzene		25.0	1.0	0.39	ug/L	22.8	91	75-120			
1,4-Dioxane			40	9.3	ug/L	ND					
2-Butanone (MEK)		125	5.0	1.3	ug/L	108	86	57-140			
2-Hexanone		125	5.0	1.2	ug/L	112	90	65-127			
4-Methyl-2-pentanone (MIBK)		125	5.0	0.91	ug/L	111	88	71-125			
Acetone		125	5.0	1.3	ug/L	113	90	56-142			
Benzene		25.0	1.0	0.41	ug/L	24.5	98	71-124			
Bromochloromethane		25.0	1.0	0.39	ug/L	24.4	98	72-130			
Bromodichloromethane		25.0	1.0	0.39	ug/L	24.0	96	80-122			
Bromoform		25.0	1.0	0.26	ug/L	19.7	79	66-128			
Bromomethane		25.0	1.0	0.28	ug/L	22.1	88	36-150			
Carbon disulfide		25.0	1.0	0.19	ug/L	26.1	104	59-134			
Carbon Tetrachloride		25.0	1.0	0.27	ug/L	23.9	95	72-134			
Chlorobenzene		25.0	1.0	0.32	ug/L	23.0	92	72-120			
Dibromochloromethane		25.0	1.0	0.32	ug/L	20.6	83	75-125			
Chloroethane		25.0	1.0	0.32	ug/L	20.2	81	69-136			
Chloroform		25.0	1.0	0.34	ug/L	24.2	97	73-127			
Chloromethane		25.0	1.0	0.35	ug/L	25.8	103	49-142			
cis-1,2-Dichloroethene		25.0	1.0	0.38	ug/L	25.3	101	74-124			
cis-1,3-Dichloropropene		25.0	1.0	0.36	ug/L	24.2	97	74-124			
Cyclohexane		25.0	1.0	0.53	ug/L	24.1	97	70-130			
Dichlorodifluoromethane		25.0	1.0	0.29	ug/L	20.5	82	33-157			
Ethylbenzene		25.0	1.0	0.18	ug/L	23.6	94	77-123			
Isopropylbenzene		25.0	1.0	0.19	ug/L	24.2	97	77-122			
Methyl Acetate		25.0	1.0	0.50	ug/L	27.0	108	60-140			
Methyl tert-Butyl Ether		25.0	1.0	0.16	ug/L	25.0	100	64-127			
Methylcyclohexane		25.0	1.0	0.50	ug/L	24.7	99	60-140			
Methylene Chloride		25.0	1.0	0.44	ug/L	25.5	102	57-132			

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Volatile Organic Compounds by EPA 8260B

LCS Analyzed: 10/12/09 (Lab Number:9J12089-BS1, Batch: 9J12089)

m,p-Xylene	50.0	2.0	0.66	ug/L	47.5	95	76-122
o-Xylene	25.0	1.0	0.36	ug/L	24.2	97	76-122
Styrene	25.0	1.0	0.18	ug/L	24.6	99	70-130
Tetrachloroethene	25.0	1.0	0.36	ug/L	22.2	89	74-122
Toluene	25.0	1.0	0.51	ug/L	22.7	91	70-122
trans-1,2-Dichloroethene	25.0	1.0	0.42	ug/L	25.6	102	73-127
trans-1,3-Dichloropropene	25.0	1.0	0.37	ug/L	22.8	91	72-123
Trichloroethene	25.0	1.0	0.46	ug/L	23.2	93	74-123
Trichlorofluoromethane	25.0	1.0	0.15	ug/L	23.7	95	62-152
Vinyl chloride	25.0	1.0	0.24	ug/L	25.5	102	65-133

Surrogate: 1,2-Dichloroethane-d4				ug/L	89	66-137
Surrogate: 4-Bromofluorobenzene				ug/L	99	73-120
Surrogate: Toluene-d8				ug/L	97	71-126

### Volatile Organic Compounds by EPA 8260B

Blank Analyzed: 10/13/09 (Lab Number:9J13014-BLK1, Batch: 9J13014)

1,1,1-Trichloroethane	1.0	0.26	ug/L	ND
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L	ND
1,1,2-Trichloroethane	1.0	0.23	ug/L	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.31	ug/L	ND
1,1-Dichloroethane	1.0	0.38	ug/L	ND
1,1-Dichloroethene	1.0	0.28	ug/L	ND
1,2,3-Trichlorobenzene	1.0	0.41	ug/L	ND
1,2,4-Trichlorobenzene	1.0	0.41	ug/L	ND
1,2-Dibromo-3-chloropropane	1.0	0.39	ug/L	ND
1,2-Dibromoethane (EDB)	1.0	0.17	ug/L	ND
1,2-Dichlorobenzene	1.0	0.20	ug/L	ND
1,2-Dichloroethane	1.0	0.21	ug/L	ND
1,2-Dichloropropane	1.0	0.33	ug/L	ND
1,3-Dichlorobenzene	1.0	0.36	ug/L	ND
1,4-Dichlorobenzene	1.0	0.39	ug/L	ND
1,4-Dioxane	40	9.3	ug/L	ND
2-Butanone (MEK)	5.0	1.3	ug/L	ND
2-Hexanone	5.0	1.2	ug/L	ND

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**LABORATORY QC DATA**

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Blank Analyzed: 10/13/09 (Lab Number: 9J13014-BLK1, Batch: 9J13014)</b>											
4-Methyl-2-pentanone (MIBK)			5.0	0.91	ug/L	ND					
Acetone			5.0	1.3	ug/L	ND					
Benzene			1.0	0.41	ug/L	ND					
Bromochloromethane			1.0	0.39	ug/L	ND					
Bromodichloromethane			1.0	0.39	ug/L	ND					
Bromoform			1.0	0.26	ug/L	ND					
Bromomethane			1.0	0.28	ug/L	ND					
Carbon disulfide			1.0	0.19	ug/L	ND					
Carbon Tetrachloride			1.0	0.27	ug/L	ND					
Chlorobenzene			1.0	0.32	ug/L	ND					
Dibromochloromethane			1.0	0.32	ug/L	ND					
Chloroethane			1.0	0.32	ug/L	ND					
Chloroform			1.0	0.34	ug/L	ND					
Chloromethane			1.0	0.35	ug/L	ND					
cis-1,2-Dichloroethene			1.0	0.38	ug/L	ND					
cis-1,3-Dichloropropene			1.0	0.36	ug/L	ND					
Cyclohexane			1.0	0.53	ug/L	ND					
Dichlorodifluoromethane			1.0	0.29	ug/L	ND					
Ethylbenzene			1.0	0.18	ug/L	ND					
Isopropylbenzene			1.0	0.19	ug/L	ND					
Methyl Acetate			1.0	0.50	ug/L	ND					
Methyl tert-Butyl Ether			1.0	0.16	ug/L	ND					
Methylcyclohexane			1.0	0.50	ug/L	ND					
Methylene Chloride			1.0	0.44	ug/L	ND					
m,p-Xylene			2.0	0.66	ug/L	ND					
o-Xylene			1.0	0.36	ug/L	ND					
Styrene			1.0	0.18	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
Toluene			1.0	0.51	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.42	ug/L	ND					
trans-1,3-Dichloropropene			1.0	0.37	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Trichlorofluoromethane			1.0	0.15	ug/L	ND					
Vinyl chloride			1.0	0.24	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					ug/L		83	66-137			

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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Blank Analyzed: 10/13/09 (Lab Number:9J13014-BLK1, Batch: 9J13014)</b>											
Surrogate:					ug/L		96	73-120			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/L		96	71-126			
<b>LCS Analyzed: 10/13/09 (Lab Number:9J13014-BS1, Batch: 9J13014)</b>											
1,1,1-Trichloroethane			1.0	0.26	ug/L	ND		73-126			
1,1,2,2-Tetrachloroethane			1.0	0.21	ug/L	ND		70-126			
1,1,2-Trichloroethane			1.0	0.23	ug/L	ND		76-122			
1,1,2-Trichloro-1,2,2-trifluoroethane			1.0	0.31	ug/L	ND		60-140			
1,1-Dichloroethane			1.0	0.38	ug/L	ND		71-129			
1,1-Dichloroethene		25.0	1.0	0.29	ug/L	24.8	99	65-138			
1,2,3-Trichlorobenzene			1.0	0.41	ug/L	ND		64-121			
1,2,4-Trichlorobenzene			1.0	0.41	ug/L	ND		70-122			
1,2-Dibromo-3-chloropropane			1.0	0.39	ug/L	ND		56-134			
1,2-Dibromoethane (EDB)			1.0	0.17	ug/L	ND		77-120			
1,2-Dichlorobenzene			1.0	0.20	ug/L	ND		77-120			
1,2-Dichloroethane			1.0	0.21	ug/L	ND		75-127			
1,2-Dichloropropane			1.0	0.33	ug/L	ND		76-120			
1,3-Dichlorobenzene			1.0	0.36	ug/L	ND		77-120			
1,4-Dichlorobenzene			1.0	0.39	ug/L	ND		75-120			
1,4-Dioxane			40	9.3	ug/L	ND					
2-Butanone (MEK)			5.0	1.3	ug/L	ND		57-140			
2-Hexanone			5.0	1.2	ug/L	ND		65-127			
4-Methyl-2-pentanone (MIBK)			5.0	0.91	ug/L	ND		71-125			
Acetone			5.0	1.3	ug/L	ND		56-142			
Benzene		25.0	1.0	0.41	ug/L	23.9	96	71-124			
Bromochloromethane			1.0	0.39	ug/L	ND		72-130			
Bromodichloromethane			1.0	0.39	ug/L	ND		80-122			
Bromoform			1.0	0.26	ug/L	ND		66-128			
Bromomethane			1.0	0.28	ug/L	ND		36-150			
Carbon disulfide			1.0	0.19	ug/L	ND		59-134			
Carbon Tetrachloride			1.0	0.27	ug/L	ND		72-134			
Chlorobenzene		25.0	1.0	0.32	ug/L	23.0	92	72-120			
Dibromochloromethane			1.0	0.32	ug/L	ND		75-125			
Chloroethane			1.0	0.32	ug/L	ND		69-136			
Chloroform			1.0	0.34	ug/L	ND		73-127			
Chloromethane			1.0	0.35	ug/L	ND		49-142			

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Work Order: RSJ0643

Project: Clabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>LCS Analyzed: 10/13/09 (Lab Number:9J13014-BS1, Batch: 9J13014)</b>											
cis-1,2-Dichloroethene			1.0	0.38	ug/L	ND		74-124			
cis-1,3-Dichloropropene			1.0	0.36	ug/L	ND		74-124			
Cyclohexane			1.0	0.53	ug/L	ND		70-130			
Dichlorodifluoromethane			1.0	0.29	ug/L	ND		33-157			
Ethylbenzene			1.0	0.18	ug/L	ND		77-123			
Isopropylbenzene			1.0	0.19	ug/L	ND		77-122			
Methyl Acetate			1.0	0.50	ug/L	ND		60-140			
Methyl tert-Butyl Ether			1.0	0.16	ug/L	ND		64-127			
Methylcyclohexane			1.0	0.50	ug/L	ND		60-140			
Methylene Chloride			1.0	0.44	ug/L	ND		57-132			
m,p-Xylene			2.0	0.66	ug/L	ND		76-122			
o-Xylene			1.0	0.36	ug/L	ND		76-122			
Styrene			1.0	0.18	ug/L	ND		70-130			
Tetrachloroethene			1.0	0.36	ug/L	ND		74-122			
Toluene		25.0	1.0	0.51	ug/L	22.7	91	70-122			
trans-1,2-Dichloroethene			1.0	0.42	ug/L	ND		73-127			
trans-1,3-Dichloropropene			1.0	0.37	ug/L	ND		72-123			
Trichloroethene		25.0	1.0	0.46	ug/L	22.4	90	74-123			
Trichlorofluoromethane			1.0	0.15	ug/L	ND		62-152			
Vinyl chloride			1.0	0.24	ug/L	ND		65-133			
Surrogate: 1,2-Dichloroethane-d4					ug/L		87	66-137			
Surrogate: 4-Bromofluorobenzene					ug/L		96	73-120			
Surrogate: Toluene-d8					ug/L		96	71-126			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Tentatively Identified Compounds by EPA 8260B

Blank Analyzed: 10/10/09 (Lab Number:9J10019-BLK1, Batch: 9J10019)

No TICs found	NA	NR	ug/kg wet	ND							T7
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#### Tentatively Identified Compounds by EPA 8260B

Blank Analyzed: 10/12/09 (Lab Number:9J12089-BLK1, Batch: 9J12089)

No TICs found	NA		ug/L	ND							T7
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#### Tentatively Identified Compounds by EPA 8260B

Blank Analyzed: 10/13/09 (Lab Number:9J13014-BLK1, Batch: 9J13014)

No TICs found	NA		ug/L	ND							T7
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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
<b>Blank Analyzed: 10/13/09 (Lab Number: 9J12044-BLK1, Batch: 9J12044)</b>											
1,2,4,5-Tetrachlorobenzene			5.0	0.82	ug/L	ND					
2,3,4,6-Tetrachlorophenol			5.0	2.1	ug/L	ND					
2,4,5-Trichlorophenol			5.0	0.99	ug/L	ND					
2,4,6-Trichlorophenol			5.0	0.99	ug/L	ND					
2,4-Dichlorophenol			5.0	0.79	ug/L	ND					
2,4-Dimethylphenol			5.0	0.96	ug/L	ND					
2,4-Dinitrophenol			10	2.2	ug/L	ND					
2,4-Dinitrotoluene			5.0	0.45	ug/L	ND					
2,6-Dinitrotoluene			5.0	0.51	ug/L	ND					
2-Chloronaphthalene			5.0	0.084	ug/L	ND					
2-Chlorophenol			5.0	0.50	ug/L	ND					
2-Methylnaphthalene			5.0	0.082	ug/L	ND					
2-Methylphenol			5.0	0.23	ug/L	ND					
2-Nitroaniline			10	0.50	ug/L	ND					
2-Nitrophenol			5.0	0.60	ug/L	ND					
3,3'-Dichlorobenzidine			5.0	0.37	ug/L	ND					
3-Nitroaniline			10	1.6	ug/L	ND					
4,6-Dinitro-2-methylphenol			10	2.3	ug/L	ND					
4-Bromophenyl phenyl ether			5.0	0.90	ug/L	ND					
4-Chloro-3-methylphenol			5.0	0.60	ug/L	ND					
4-Chloroaniline			5.0	0.33	ug/L	ND					
4-Chlorophenyl phenyl ether			5.0	0.17	ug/L	ND					
4-Methylphenol			10	0.58	ug/L	ND					
4-Nitroaniline			10	0.46	ug/L	ND					
4-Nitrophenol			10	1.5	ug/L	ND					
Acenaphthene			5.0	0.11	ug/L	ND					
Acenaphthylene			5.0	0.047	ug/L	ND					
Acetophenone			5.0	1.0	ug/L	ND					
Anthracene			5.0	0.056	ug/L	ND					
Atrazine			5.0	1.1	ug/L	ND					
Benzaldehyde			5.0	0.27	ug/L	ND					
Benzo[a]anthracene			5.0	0.064	ug/L	ND					
Benzo[a]pyrene			5.0	0.091	ug/L	ND					
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND					
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND					

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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
Blank Analyzed: 10/13/09 (Lab Number:9J12044-BLK1, Batch: 9J12044)											
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND					
1,1'-Biphenyl			5.0	0.65	ug/L	ND					
Bis(2-chloroethoxy)methane			5.0	0.38	ug/L	ND					
Bis(2-chloroethyl)ether			5.0	0.18	ug/L	ND					
2,2'-oxybis[1-chloropropane]			4.0	4.0	ug/L	ND					
Bis(2-ethylhexyl)phthalate			5.0	4.8	ug/L	ND					
Butyl benzyl phthalate			5.0	1.7	ug/L	ND					
Caprolactam			5.0	4.6	ug/L	ND					
Carbazole			5.0	0.089	ug/L	ND					
Chrysene			5.0	0.27	ug/L	ND					
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND					
Dibenzofuran			10	1.6	ug/L	ND					
Diethyl phthalate			5.0	0.11	ug/L	1.7					J
Dimethyl phthalate			5.0	0.30	ug/L	ND					
Di-n-butyl phthalate			5.0	0.30	ug/L	ND					
Di-n-octyl phthalate			5.0	0.24	ug/L	ND					
Fluoranthene			5.0	0.098	ug/L	ND					
Fluorene			5.0	0.074	ug/L	ND					
Hexachlorobenzene			5.0	0.44	ug/L	ND					
Hexachlorobutadiene			5.0	2.6	ug/L	ND					
Hexachlorocyclopentadiene			5.0	2.5	ug/L	ND					
Hexachloroethane			5.0	2.8	ug/L	ND					
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND					
Isophorone			5.0	0.32	ug/L	ND					
Naphthalene			5.0	0.12	ug/L	ND					
Nitrobenzene			5.0	0.54	ug/L	ND					
N-Nitrosodi-n-propylamine			5.0	0.45	ug/L	ND					
N-Nitrosodiphenylamine			5.0	0.26	ug/L	ND					
Pentachlorophenol			10	5.1	ug/L	ND					
Phenanthrene			5.0	0.11	ug/L	ND					
Phenol			5.0	0.45	ug/L	ND					
Pyrene			5.0	0.088	ug/L	ND					

Surrogate:	ug/L	100	52-132
2,4,6-Tribromophenol			
Surrogate:	ug/L	72	48-120
2-Fluorobiphenyl			

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A2L Technologies  
10220 Harney Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Semivolatle Organics by GC/MS

Blank Analyzed: 10/13/09 (Lab Number:9J12044-BLK1, Batch: 9J12044)

Surrogate:					ug/L		46	20-120			
2-Fluorophenol											
Surrogate:					ug/L		93	46-120			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		33	16-120			
Surrogate:					ug/L		80	24-136			
p-Terphenyl-d14											

Blank Analyzed: 10/13/09 (Lab Number:9J12044-BLK2, Batch: 9J12044)

1,2,4,5-Tetrachlorobenzene	5.0	0.82		ug/L	ND
2,3,4,6-Tetrachlorophenol	5.0	2.1		ug/L	ND
2,4,5-Trichlorophenol	5.0	0.99		ug/L	ND
2,4,6-Trichlorophenol	5.0	0.99		ug/L	ND
2,4-Dichlorophenol	5.0	0.79		ug/L	ND
2,4-Dimethylphenol	5.0	0.96		ug/L	ND
2,4-Dinitrophenol	10	2.2		ug/L	ND
2,4-Dinitrotoluene	5.0	0.45		ug/L	ND
2,6-Dinitrotoluene	5.0	0.51		ug/L	ND
2-Chloronaphthalene	5.0	0.084		ug/L	ND
2-Chlorophenol	5.0	0.50		ug/L	ND
2-Methylnaphthalene	5.0	0.082		ug/L	ND
2-Methylphenol	5.0	0.23		ug/L	ND
2-Nitroaniline	10	0.50		ug/L	ND
2-Nitrophenol	5.0	0.60		ug/L	ND
3,3'-Dichlorobenzidine	5.0	0.37		ug/L	ND
3-Nitroaniline	10	1.6		ug/L	ND
4,6-Dinitro-2-methylphenol	10	2.3		ug/L	ND
4-Bromophenyl phenyl ether	5.0	0.90		ug/L	ND
4-Chloro-3-methylphenol	5.0	0.60		ug/L	ND
4-Chloroaniline	5.0	0.33		ug/L	ND
4-Chlorophenyl phenyl ether	5.0	0.17		ug/L	ND
4-Methylphenol	10	0.58		ug/L	ND
4-Nitroaniline	10	0.46		ug/L	ND
4-Nitrophenol	10	1.5		ug/L	ND
Acenaphthene	5.0	0.11		ug/L	ND
Acenaphthylene	5.0	0.047		ug/L	ND
Acetophenone	5.0	1.0		ug/L	ND
Anthracene	5.0	0.056		ug/L	ND

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% RPD	Data
							Limits	RPD Limit	Qualifiers
<b>Semivolatile Organics by GC/MS</b>									
Blank Analyzed: 10/13/09 (Lab Number:9J12044-BLK2, Batch: 9J12044)									
Atrazine			5.0	1.1	ug/L	ND			
Benzaldehyde			5.0	0.27	ug/L	ND			
Benzo[a]anthracene			5.0	0.064	ug/L	ND			
Benzo[a]pyrene			5.0	0.091	ug/L	ND			
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND			
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND			
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND			
1,1'-Biphenyl			5.0	0.65	ug/L	ND			
Bis(2-chloroethoxy)methane			5.0	0.38	ug/L	ND			
Bis(2-chloroethyl)ether			5.0	0.18	ug/L	ND			
2,2'-oxybis[1-chloropropane]			4.0	4.0	ug/L	ND			
Bis(2-ethylhexyl)phthalate			5.0	4.8	ug/L	ND			
Butyl benzyl phthalate			5.0	1.7	ug/L	ND			
Caprolactam			5.0	4.8	ug/L	ND			
Carbazole			5.0	0.089	ug/L	ND			
Chrysene			5.0	0.27	ug/L	ND			
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND			
Dibenzofuran			10	1.6	ug/L	ND			
Diethyl phthalate			5.0	0.11	ug/L	1.4			J
Dimethyl phthalate			5.0	0.30	ug/L	ND			
Di-n-butyl phthalate			5.0	0.30	ug/L	ND			
Di-n-octyl phthalate			5.0	0.24	ug/L	ND			
Fluoranthene			5.0	0.098	ug/L	ND			
Fluorene			5.0	0.074	ug/L	ND			
Hexachlorobenzene			5.0	0.44	ug/L	ND			
Hexachlorobutadiene			5.0	2.6	ug/L	ND			
Hexachlorocyclopentadiene			5.0	2.5	ug/L	ND			
Hexachloroethane			5.0	2.8	ug/L	ND			
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND			
Isophorone			5.0	0.32	ug/L	ND			
Naphthalene			5.0	0.12	ug/L	ND			
Nitrobenzene			5.0	0.54	ug/L	ND			
N-Nitrosodi-n-propylamine			5.0	0.45	ug/L	ND			
N-Nitrosodiphenylamine			5.0	0.26	ug/L	ND			
Pentachlorophenol			10	5.1	ug/L	ND			

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Semivolatile Organics by GC/MS

Blank Analyzed: 10/13/09 (Lab Number:9J12044-BLK2, Batch: 9J12044)

Phenanthrene	5.0	0.11	ug/L	ND
Phenol	5.0	0.45	ug/L	ND
Pyrene	5.0	0.068	ug/L	ND

Surrogate:			ug/L	105	52-132
2,4,6-Tribromophenol			ug/L	73	48-120
Surrogate:			ug/L	27	20-120
2-Fluorobiphenyl			ug/L	85	46-120
Surrogate:			ug/L	30	16-120
2-Fluorophenol			ug/L	74	24-136
Surrogate:					
Nitrobenzene-d5					
Surrogate: Phenol-d5					
Surrogate:					
p-Terphenyl-d14					

LCS Analyzed: 10/13/09 (Lab Number:9J12044-BS1, Batch: 9J12044)

1,2,4,5-Tetrachlorobenzene	100	5.0	0.82	ug/L	70.5	70	40-160
2,3,4,6-Tetrachlorophenol	100	5.0	2.1	ug/L	108	108	40-160
2,4,5-Trichlorophenol	100	5.0	0.99	ug/L	104	104	65-126
2,4,6-Trichlorophenol	100	5.0	0.99	ug/L	103	103	64-120
2,4-Dichlorophenol	100	5.0	0.79	ug/L	94.1	94	64-120
2,4-Dimethylphenol	100	5.0	0.96	ug/L	83.4	83	57-120
2,4-Dinitrophenol	100	10	2.2	ug/L	91.4	91	42-153
2,4-Dinitrotoluene	100	5.0	0.45	ug/L	121	121	59-125
2,6-Dinitrotoluene	100	5.0	0.51	ug/L	118	118	74-134
2-Chloronaphthalene	100	5.0	0.084	ug/L	82.7	83	52-120
2-Chlorophenol	100	5.0	0.50	ug/L	73.1	73	48-120
2-Methylnaphthalene	100	5.0	0.082	ug/L	80.1	80	48-120
2-Methylphenol	100	5.0	0.23	ug/L	72.3	72	39-120
2-Nitroaniline	100	10	0.50	ug/L	106	106	67-136
2-Nitrophenol	100	5.0	0.60	ug/L	84.6	85	58-120
3,3'-Dichlorobenzidine	100	5.0	0.37	ug/L	64.4	64	33-140
3-Nitroaniline	100	10	1.6	ug/L	99.7	100	69-129
4,6-Dinitro-2-methylphenol	100	10	2.3	ug/L	131	131	64-159
4-Bromophenyl phenyl ether	100	5.0	0.90	ug/L	108	108	71-126
4-Chloro-3-methylphenol	100	5.0	0.60	ug/L	106	106	64-120
4-Chloroaniline	100	5.0	0.33	ug/L	85.9	86	60-124
4-Chlorophenyl phenyl ether	100	5.0	0.17	ug/L	96.8	97	71-122

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Project: Clabationi Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatle Organics by GC/MS</b>											
LCS Analyzed: 10/13/09 (Lab Number:9J12044-BS1, Batch: 9J12044)											
4-Methylphenol		100	10	0.58	ug/L	69.5	69	36-120			
4-Nitroaniline		100	10	0.46	ug/L	70.4	70	64-135			
4-Nitrophenol		100	10	1.5	ug/L	60.0	60	16-120			
Acenaphthene		100	5.0	0.11	ug/L	98.6	99	60-120			
Acenaphthylene		100	5.0	0.047	ug/L	94.4	94	63-120			
Acetophenone		100	5.0	1.0	ug/L	87.0	87	45-120			
Anthracene		100	5.0	0.056	ug/L	110	110	69-131			
Atrazine		100	5.0	1.1	ug/L	116	116	70-129			
Benzaldehyde		100	5.0	0.27	ug/L	98.3	98	30-140			
Benzo[a]anthracene		100	5.0	0.064	ug/L	108	108	73-138			
Benzo[a]pyrene		100	5.0	0.091	ug/L	110	110	74-128			
Benzo[b]fluoranthene		100	5.0	0.063	ug/L	99.1	99	75-133			
Benzo[g,h,i]perylene		100	5.0	0.078	ug/L	115	115	66-152			
Benzo[k]fluoranthene		100	5.0	0.068	ug/L	114	114	75-133			
1,1'-Bi(phenyl)		100	5.0	0.65	ug/L	79.9	80	30-140			
Bis(2-chloroethoxy)methane		100	5.0	0.38	ug/L	68.0	68	62-120			
Bis(2-chloroethyl)ether		100	5.0	0.18	ug/L	76.8	77	51-120			
2,2'-oxybis[1-chloropropane]		100	4.0	4.0	ug/L	93.5	94	47-120			
Bis(2-ethylhexyl)phthalate		100	5.0	4.8	ug/L	111	111	69-136			
Butyl benzyl phthalate		100	5.0	1.7	ug/L	126	126	62-149			
Caprolactam		100	5.0	4.6	ug/L	30.3	30	30-140			
Carbazole		100	5.0	0.089	ug/L	115	115	68-133			
Chrysene		100	5.0	0.27	ug/L	109	109	69-140			
Dibenz[a,h]anthracene		100	5.0	0.20	ug/L	109	109	67-144			
Dibenzofuran		100	10	1.6	ug/L	98.7	99	66-120			
Diethyl phthalate		100	5.0	0.11	ug/L	120	120	78-128			B
Dimethyl phthalate		100	5.0	0.30	ug/L	112	112	73-127			
Di-n-butyl phthalate		100	5.0	0.30	ug/L	116	116	67-132			
Di-n-octyl phthalate		100	5.0	0.24	ug/L	110	110	72-145			
Fluoranthene		100	5.0	0.098	ug/L	111	111	67-133			
Fluorene		100	5.0	0.074	ug/L	110	110	66-129			
Hexachlorobenzene		100	5.0	0.44	ug/L	101	101	38-131			
Hexachlorobutadiene		100	5.0	2.6	ug/L	62.7	63	30-120			
Hexachlorocyclopentadiene		100	5.0	2.5	ug/L	54.4	54	23-120			
Hexachloroethane		100	5.0	2.8	ug/L	60.9	61	25-120			

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Work Order: RSJ0643

Project: Clabatonl Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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Semivolatile Organics by GC/MS

LCS Analyzed: 10/13/09 (Lab Number:9J12044-BS1, Batch: 9J12044)

Indeno[1,2,3-cd]pyrene	100	5.0	0.15	ug/L	113	113	69-146				
Isophorone	100	5.0	0.32	ug/L	86.5	86	64-120				
Naphthalene	100	5.0	0.12	ug/L	77.7	78	48-120				
Nitrobenzene	100	5.0	0.54	ug/L	104	104	52-120				
N-Nitrosodi-n-propylamin e	100	5.0	0.45	ug/L	95.4	95	56-120				
N-Nitrosodiphenylamine	100	5.0	0.26	ug/L	135	135	25-125				L1
Pentachlorophenol	100	10	5.1	ug/L	107	107	39-136				
Phenanthrene	100	5.0	0.11	ug/L	116	116	67-130				
Phenol	100	5.0	0.45	ug/L	38.0	38	17-120				
Pyrene	100	5.0	0.068	ug/L	115	115	58-136				

Surrogate:

2,4,6-Tribromophenol

Surrogate:

2-Fluorobiphenyl

Surrogate:

2-Fluorophenol

Surrogate:

Nitrobenzene-d5

Surrogate: Phenol-d5

Surrogate:

p-Terphenyl-d14

ug/L 110 52-132

ug/L 76 48-120

ug/L 45 20-120

ug/L 94 46-120

ug/L 33 16-120

ug/L 88 24-136

LCS Analyzed: 10/14/09 (Lab Number:9J12044-BS2, Batch: 9J12044)

1,2,4,5-Tetrachlorobenze ne	100	5.0	0.82	ug/L	73.1	73	40-160				
2,3,4,6-Tetrachlorophenol	100	5.0	2.1	ug/L	126	126	40-160				
2,4,5-Trichlorophenol	100	5.0	0.99	ug/L	107	107	65-126				
2,4,6-Trichlorophenol	100	5.0	0.99	ug/L	106	106	64-120				
2,4-Dichlorophenol	100	5.0	0.79	ug/L	93.3	93	64-120				
2,4-Dimethylphenol	100	5.0	0.96	ug/L	75.8	76	57-120				
2,4-Dinitrophenol	100	10	2.2	ug/L	98.9	99	42-153				
2,4-Dinitrotoluene	100	5.0	0.45	ug/L	113	113	59-125				
2,6-Dinitrotoluene	100	5.0	0.51	ug/L	116	116	74-134				
2-Chloronaphthalene	100	5.0	0.084	ug/L	80.2	80	52-120				
2-Chlorophenol	100	5.0	0.50	ug/L	75.4	75	48-120				
2-Methylnaphthalene	100	5.0	0.082	ug/L	77.0	77	48-120				
2-Methylphenol	100	5.0	0.23	ug/L	73.6	74	39-120				
2-Nitroaniline	100	10	0.50	ug/L	95.3	95	67-136				
2-Nitrophenol	100	5.0	0.60	ug/L	86.0	86	59-120				
3,3'-Dichlorobenzidine	100	5.0	0.37	ug/L	59.1	59	33-140				
3-Nitroaniline	100	10	1.6	ug/L	90.5	91	69-129				

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Work Order: RSJ0643  
Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
LCS Analyzed: 10/14/09 (Lab Number: 9J12044-BS2, Batch: 9J12044)											
4,6-Dinitro-2-methylphenol		100	10	2.3	ug/L	120	120	64-159			
4-Bromophenyl phenyl ether		100	5.0	0.90	ug/L	104	104	71-126			
4-Chloro-3-methylphenol		100	5.0	0.60	ug/L	94.4	94	64-120			
4-Chloroaniline		100	5.0	0.33	ug/L	83.8	84	60-124			
4-Chlorophenyl phenyl ether		100	5.0	0.17	ug/L	86.6	87	71-122			
4-Methylphenol		100	10	0.58	ug/L	68.6	69	36-120			
4-Nitroaniline		100	10	0.46	ug/L	65.0	65	64-135			
4-Nitrophenol		100	10	1.5	ug/L	43.8	44	16-120			
Acenaphthene		100	5.0	0.11	ug/L	92.0	92	60-120			
Acenaphthylene		100	5.0	0.047	ug/L	93.2	93	63-120			
Acetophenone		100	5.0	1.0	ug/L	104	104	45-120			
Anthracene		100	5.0	0.056	ug/L	108	108	69-131			
Atrazine		100	5.0	1.1	ug/L	113	113	70-129			
Benzaldehyde		100	5.0	0.27	ug/L	122	122	30-140			
Benzo[a]anthracene		100	5.0	0.084	ug/L	102	102	73-138			
Benzo[a]pyrene		100	5.0	0.091	ug/L	109	109	74-126			
Benzo[b]fluoranthene		100	5.0	0.063	ug/L	100	100	75-133			
Benzo[g,h,i]perylene		100	5.0	0.078	ug/L	104	104	66-152			
Benzo[k]fluoranthene		100	5.0	0.066	ug/L	117	117	75-133			
1,1'-Biphenyl		100	5.0	0.65	ug/L	84.0	84	30-140			
Bis(2-chloroethoxy)methane		100	5.0	0.38	ug/L	71.2	71	62-120			
Bis(2-chloroethyl)ether		100	5.0	0.18	ug/L	82.6	83	51-120			
2,2'-oxybis[1-chloropropane]		100	4.0	4.0	ug/L	75.2	75	47-120			
Bis(2-ethylhexyl)phthalate		100	5.0	4.8	ug/L	92.5	92	69-136			
Butyl benzyl phthalate		100	5.0	1.7	ug/L	99.9	100	62-149			
Caprolactam		100	5.0	4.6	ug/L	30.6	31	30-140			
Carbazole		100	5.0	0.089	ug/L	111	111	68-133			
Chrysene		100	5.0	0.27	ug/L	104	104	69-140			
Dibenz[a,h]anthracene		100	5.0	0.20	ug/L	101	101	67-144			
Dibenzofuran		100	10	1.6	ug/L	91.6	92	66-120			
Diethyl phthalate		100	5.0	0.11	ug/L	106	106	78-128			B
Dimethyl phthalate		100	5.0	0.30	ug/L	104	104	73-127			
Di-n-butyl phthalate		100	5.0	0.30	ug/L	112	112	67-132			
Di-n-octyl phthalate		100	5.0	0.24	ug/L	97.9	98	72-145			

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Semivolatile Organics by GC/MS

LCS Analyzed: 10/14/09 (Lab Number:9J12044-BS2, Batch: 9J12044)

Fluoranthene		100	5.0	0.098	ug/L	110	110	67-133			
Fluorene		100	5.0	0.074	ug/L	96.9	97	66-129			
Hexachlorobenzene		100	5.0	0.44	ug/L	98.2	98	38-131			
Hexachlorobutadiene		100	5.0	2.6	ug/L	56.8	57	30-120			
Hexachlorocyclopentadiene		100	5.0	2.5	ug/L	52.9	53	23-120			
Hexachloroethane		100	5.0	2.8	ug/L	57.2	57	25-120			
Indeno[1,2,3-cd]pyrene		100	5.0	0.15	ug/L	104	104	89-148			
Isophorone		100	5.0	0.32	ug/L	85.1	85	64-120			
Naphthalene		100	5.0	0.12	ug/L	77.4	77	48-120			
Nitrobenzene		100	5.0	0.54	ug/L	96.2	96	52-120			
N-Nitrosodi-n-propylamine		100	5.0	0.45	ug/L	78.6	79	56-120			
N-Nitrosodiphenylamine		100	5.0	0.26	ug/L	128	128	25-125			L
Pentachlorophenol		100	10	5.1	ug/L	106	106	39-136			
Phenanthrene		100	5.0	0.11	ug/L	106	106	67-130			
Phenol		100	5.0	0.45	ug/L	41.3	41	17-120			
Pyrene		100	5.0	0.068	ug/L	103	103	58-136			

Surrogate:	ug/L	110	52-132
2,4,6-Tribromophenol			
Surrogate:	ug/L	76	48-120
2-Fluorobiphenyl			
Surrogate:	ug/L	46	20-120
2-Fluorophenol			
Surrogate:	ug/L	87	46-120
Nitrobenzene-d5			
Surrogate: Phenol-d5	ug/L	36	16-120
Surrogate:	ug/L	79	24-136
p-Terphenyl-d14			

### Semivolatile Organics by GC/MS

Blank Analyzed: 10/15/09 (Lab Number:9J13065-BLK1, Batch: 9J13065)

1,2,4,5-Tetrachlorobenzene	170	15	ug/kg wet	ND
2,3,4,6-Tetrachlorophenol	170	170	ug/kg wet	ND
2,4,5-Trichlorophenol	170	37	ug/kg wet	ND
2,4,6-Trichlorophenol	170	11	ug/kg wet	ND
2,4-Dichlorophenol	170	8.8	ug/kg wet	ND
2,4-Dimethylphenol	170	45	ug/kg wet	ND
2,4-Dinitrophenol	330	59	ug/kg wet	ND
2,4-Dinitrotoluene	170	26	ug/kg wet	ND

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Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 10/15/09 (Lab Number:9J13065-BLK1, Batch: 9J13065)</b>											
2,6-Dinitrotoluene			170	41	ug/kg wet	ND					
2-Chloronaphthalene			170	11	ug/kg wet	ND					
2-Chlorophenol			170	8.5	ug/kg wet	ND					
2-Methylnaphthalene			170	2.0	ug/kg wet	ND					
2-Methylphenol			170	5.2	ug/kg wet	ND					
2-Nitroaniline			330	54	ug/kg wet	ND					
2-Nitrophenol			170	7.7	ug/kg wet	ND					
3,3'-Dichlorobenzidine			170	150	ug/kg wet	ND					
3-Nitroaniline			330	39	ug/kg wet	ND					
4,6-Dinitro-2-methylphenol			330	58	ug/kg wet	ND					
4-Bromophenyl phenyl ether			170	53	ug/kg wet	ND					
4-Chloro-3-methylphenol			170	6.9	ug/kg wet	ND					
4-Chloroaniline			170	49	ug/kg wet	ND					
4-Chlorophenyl phenyl ether			170	3.6	ug/kg wet	ND					
4-Methylphenol			330	9.3	ug/kg wet	ND					
4-Nitroaniline			330	19	ug/kg wet	ND					
4-Nitrophenol			330	41	ug/kg wet	ND					
Acenaphthene			170	2.0	ug/kg wet	ND					
Acenaphthylene			170	1.4	ug/kg wet	ND					
Acetophenone			170	8.6	ug/kg wet	ND					
Anthracene			170	4.3	ug/kg wet	ND					
Atrazine			170	7.5	ug/kg wet	ND					
Benzaldehyde			170	18	ug/kg wet	ND					
Benzo[a]anthracene			170	2.9	ug/kg wet	ND					
Benzo[a]pyrene			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene			170	3.3	ug/kg wet	ND					
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND					
1,1'-Biphenyl			170	10	ug/kg wet	ND					
Bis(2-chloroethoxy)methane			170	9.1	ug/kg wet	ND					
Bis(2-chloroethyl)ether			170	14	ug/kg wet	ND					
2,2'-Oxybis(1-chloropropyl)ane			170	18	ug/kg wet	ND					
Bis(2-ethylhexyl)phthalate			170	54	ug/kg wet	ND					
Butyl benzyl phthalate			170	45	ug/kg wet	ND					

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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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Semivolatile Organics by GC/MS

Blank Analyzed: 10/15/09 (Lab Number:9J13065-BLK1, Batch: 9J13065)

Caprolactam	170	73	ug/kg wet	ND
Carbazole	170	1.9	ug/kg wet	ND
Chrysene	170	1.7	ug/kg wet	ND
Dibenz[a,h]anthracene	170	2.0	ug/kg wet	ND
Dibenzofuran	170	1.7	ug/kg wet	ND
Diethyl phthalate	170	5.1	ug/kg wet	ND
Dimethyl phthalate	170	4.4	ug/kg wet	ND
Di-n-butyl phthalate	170	58	ug/kg wet	ND
Di-n-octyl phthalate	170	3.9	ug/kg wet	ND
Fluoranthene	170	2.4	ug/kg wet	ND
Fluorene	170	3.9	ug/kg wet	ND
Hexachlorobenzene	170	8.3	ug/kg wet	ND
Hexachlorobutadiene	170	8.6	ug/kg wet	ND
Hexachlorocyclopentadiene	170	51	ug/kg wet	ND
Hexachloroethane	170	13	ug/kg wet	ND
Indeno[1,2,3-cd]pyrene	170	4.6	ug/kg wet	ND
Isophorone	170	8.4	ug/kg wet	ND
Naphthalene	170	2.8	ug/kg wet	ND
Nitrobenzene	170	7.4	ug/kg wet	ND
N-Nitrosodi-n-propylamine	170	13	ug/kg wet	ND
N-Nitrosodiphenylamine	170	9.2	ug/kg wet	ND
Pentachlorophenol	330	58	ug/kg wet	ND
Phenanthrene	170	3.5	ug/kg wet	ND
Phenol	170	18	ug/kg wet	ND
Pyrene	170	1.1	ug/kg wet	ND

Surrogate:	ug/kg wet	91	39-146
2,4,6-Tribromophenol			
Surrogate:	ug/kg wet	85	37-120
2-Fluorobiphenyl			
Surrogate:	ug/kg wet	68	18-120
2-Fluorophenol			
Surrogate:	ug/kg wet	82	34-132
Nitrobenzene-d5			
Surrogate: Phenol-d5	ug/kg wet	74	11-120
Surrogate:	ug/kg wet	91	58-147
p-Terphenyl-d14			

LCS Analyzed: 10/15/09 (Lab Number:9J13065-BS1, Batch: 9J13065)

1,2,4,5-Tetrachlorobenzene	3260	170	15	ug/kg wet	2680	82
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Project: Clabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>Semivolatile Organics by GC/MS</u>											
LCS Analyzed: 10/15/09 (Lab Number: 9J13065-BS1, Batch: 9J13065)											
2,3,4,6-Tetrachlorophenol		3260	170	170	ug/kg wet	2940	90				
2,4,5-Trichlorophenol		3260	170	36	ug/kg wet	2970	91	59-126			
2,4,6-Trichlorophenol		3260	170	11	ug/kg wet	2900	89	59-123			
2,4-Dichlorophenol		3260	170	8.7	ug/kg wet	2830	87	52-120			
2,4-Dimethylphenol		3260	170	45	ug/kg wet	2790	86	38-120			
2,4-Dinitrophenol		3260	320	58	ug/kg wet	2520	77	35-146			
2,4-Dinitrotoluene		3260	170	26	ug/kg wet	3260	100	55-125			
2,6-Dinitrotoluene		3260	170	40	ug/kg wet	3180	98	66-128			
2-Chloronaphthalene		3260	170	11	ug/kg wet	2830	87	57-120			
2-Chlorophenol		3260	170	8.4	ug/kg wet	2360	72	38-120			
2-Methylnaphthalene		3260	170	2.0	ug/kg wet	2880	88	47-120			
2-Methylphenol		3260	170	5.1	ug/kg wet	2620	80	48-120			
2-Nitroaniline		3260	320	53	ug/kg wet	3580	110	61-130			
2-Nitrophenol		3260	170	7.5	ug/kg wet	2620	80	50-120			
3,3'-Dichlorobenzidine		3260	170	140	ug/kg wet	3180	98	48-126			
3-Nitroaniline		3260	320	38	ug/kg wet	2750	84	61-127			
4,6-Dinitro-2-methylphenol		3260	320	57	ug/kg wet	3490	107	49-155			
4-Bromophenyl phenyl ether		3260	170	52	ug/kg wet	3080	94	58-131			
4-Chloro-3-methylphenol		3260	170	6.8	ug/kg wet	3040	93	49-125			
4-Chloroaniline		3260	170	48	ug/kg wet	2570	79	49-120			
4-Chlorophenyl phenyl ether		3260	170	3.5	ug/kg wet	2810	86	63-124			
4-Methylphenol		3260	320	9.2	ug/kg wet	2780	85	50-119			
4-Nitroaniline		3260	320	18	ug/kg wet	3060	94	63-128			
4-Nitrophenol		3260	320	40	ug/kg wet	3640	112	43-137			
Acenaphthene		3260	170	1.9	ug/kg wet	3050	94	53-120			
Acenaphthylene		3260	170	1.3	ug/kg wet	2950	91	58-121			
Acetophenone		3260	170	8.5	ug/kg wet	2520	77	66-120			
Anthracene		3260	170	4.2	ug/kg wet	3120	96	62-129			
Atrazine		3260	170	7.3	ug/kg wet	1910	58	73-133			
Benzaldehyde		3260	170	18	ug/kg wet	1880	58	21-120			
Benzo[a]anthracene		3260	170	2.8	ug/kg wet	3210	99	65-133			
Benzo[a]pyrene		3260	170	4.0	ug/kg wet	3500	107	64-127			
Benzo[b]fluoranthene		3260	170	3.2	ug/kg wet	3150	97	64-135			
Benzo[g,h,i]perylene		3260	170	2.0	ug/kg wet	3490	107	50-152			
Benzo[k]fluoranthene		3260	170	1.8	ug/kg wet	3650	112	58-138			
1,1'-Biphenyl		3260	170	10	ug/kg wet	2740	84	71-120			

L5

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Work Order: RSJ0643

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Reported: 11/03/09 12:07

Project: Ciabattone Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
LCS Analyzed: 10/15/09 (Lab Number: 9J13065-BS1, Batch: 9J13065)											
Bis(2-chloroethoxy)methane		3260	170	9.0	ug/kg wet	2030	62	61-133			
Bis(2-chloroethyl)ether		3260	170	14	ug/kg wet	2180	67	45-120			
2,2'-Oxybis(1-Chloropropane)		3260	170	17	ug/kg wet	2750	84	44-120			
Bis(2-ethylhexyl)phthalate		3260	170	53	ug/kg wet	3210	99	61-133			
Butyl benzyl phthalate		3260	170	44	ug/kg wet	3460	106	61-129			
Caprolactam		3260	170	71	ug/kg wet	2920	90	54-133			
Carbazole		3260	170	1.9	ug/kg wet	3140	96	59-129			
Chrysene		3260	170	1.6	ug/kg wet	3270	100	64-131			
Dibenz[a,h]anthracene		3260	170	1.9	ug/kg wet	3430	105	54-148			
Dibenzofuran		3260	170	1.7	ug/kg wet	2960	91	56-120			
Diethyl phthalate		3260	170	5.0	ug/kg wet	3200	98	66-126			
Dimethyl phthalate		3260	170	4.3	ug/kg wet	3090	95	65-124			
Di-n-butyl phthalate		3260	170	57	ug/kg wet	3230	99	58-130			
Di-n-octyl phthalate		3260	170	3.9	ug/kg wet	3150	97	62-133			
Fluoranthene		3260	170	2.4	ug/kg wet	3150	97	62-131			
Fluorene		3260	170	3.8	ug/kg wet	3120	96	63-126			
Hexachlorobenzene		3260	170	8.2	ug/kg wet	2890	89	60-132			
Hexachlorobutadiene		3260	170	8.4	ug/kg wet	2530	78	45-120			
Hexachlorocyclopentadiene		3260	170	50	ug/kg wet	2460	76	31-120			
Hexachloroethane		3260	170	13	ug/kg wet	2320	71	41-120			
Indeno[1,2,3-cd]pyrene		3260	170	4.6	ug/kg wet	3490	107	56-149			
Isophorone		3260	170	8.2	ug/kg wet	2650	81	56-120			
Naphthalene		3260	170	2.7	ug/kg wet	2610	80	46-120			
Nitrobenzene		3260	170	7.3	ug/kg wet	2740	84	49-120			
N-Nitrosodi-n-propylamine		3260	170	13	ug/kg wet	2780	85	46-120			
N-Nitrosodiphenylamine		3260	170	9.0	ug/kg wet	3860	118	20-119			
Pentachlorophenol		3260	320	57	ug/kg wet	3030	93	33-136			
Phenanthrene		3260	170	3.5	ug/kg wet	3170	97	60-130			
Phenol		3260	170	17	ug/kg wet	2450	75	36-120			
Pyrene		3260	170	1.1	ug/kg wet	3280	101	51-133			
Surrogate: 2,4,6-Tribromophenol					ug/kg wet		96	39-146			
Surrogate: 2-Fluorobiphenyl					ug/kg wet		87	37-120			
Surrogate: 2-Fluorophenol					ug/kg wet		66	18-120			

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Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Semivolatile Organics by GC/MS

LCS Analyzed: 10/15/09 (Lab Number:9J13065-BS1, Batch: 9J13065)

Surrogate:	ug/kg wet	87	34-132
Nitrobenzene-d5	ug/kg wet	73	11-120
Surrogate: Phenol-d5	ug/kg wet	88	58-147
Surrogate:			
p-Terphenyl-d14			

LCS Dup Analyzed: 10/15/09 (Lab Number:9J13065-BSD1, Batch: 9J13065)

1,2,4,5-Tetrachlorobenzene	3300	170	15	ug/kg wet	2610	79		3		
2,3,4,6-Tetrachlorophenol	3300	170	170	ug/kg wet	3030	92		3		
2,4,5-Trichlorophenol	3300	170	38	ug/kg wet	2970	90	59-126	0.1	18	
2,4,6-Trichlorophenol	3300	170	11	ug/kg wet	3010	91	59-123	4	19	
2,4-Dichlorophenol	3300	170	8.8	ug/kg wet	2840	86	52-120	0.3	19	
2,4-Dimethylphenol	3300	170	45	ug/kg wet	2830	86	36-120	1	42	
2,4-Dinitrophenol	3300	330	58	ug/kg wet	2370	72	35-146	6	22	
2,4-Dinitrotoluene	3300	170	26	ug/kg wet	3330	101	55-125	2	20	
2,6-Dinitrotoluene	3300	170	41	ug/kg wet	3340	101	66-128	5	15	
2-Chloronaphthalene	3300	170	11	ug/kg wet	2880	87	57-120	2	21	
2-Chlorophenol	3300	170	8.5	ug/kg wet	2300	70	38-120	2	25	
2-Methylnaphthalene	3300	170	2.0	ug/kg wet	2830	86	47-120	2	21	
2-Methylphenol	3300	170	5.1	ug/kg wet	2610	79	48-120	0.5	27	
2-Nitroaniline	3300	330	54	ug/kg wet	3660	111	61-130	2	15	
2-Nitrophenol	3300	170	7.6	ug/kg wet	2560	78	50-120	2	18	
3,3'-Dichlorobenzidine	3300	170	150	ug/kg wet	3650	111	48-126	14	25	
3-Nitroaniline	3300	330	38	ug/kg wet	3120	94	61-127	13	19	
4,6-Dinitro-2-methylphenol	3300	330	58	ug/kg wet	3550	107	49-155	1	15	
4-Bromophenyl phenyl ether	3300	170	53	ug/kg wet	3000	91	58-131	3	15	
4-Chloro-3-methylphenol	3300	170	6.9	ug/kg wet	3020	92	49-125	0.5	27	
4-Chloroaniline	3300	170	49	ug/kg wet	2830	86	49-120	10	22	
4-Chlorophenyl phenyl ether	3300	170	3.6	ug/kg wet	2790	85	63-124	0.7	16	
4-Methylphenol	3300	330	9.3	ug/kg wet	2730	83	50-119	2	24	
4-Nitroaniline	3300	330	19	ug/kg wet	3070	93	63-128	0.4	24	
4-Nitrophenol	3300	330	40	ug/kg wet	3620	110	43-137	0.6	25	
Acenaphthene	3300	170	2.0	ug/kg wet	3060	93	53-120	0.2	35	
Acenaphthylene	3300	170	1.4	ug/kg wet	2960	90	58-121	0.5	18	
Acetophenone	3300	170	8.6	ug/kg wet	2440	74	66-120	3	20	
Anthracene	3300	170	4.3	ug/kg wet	3160	96	62-129	1	15	
Atrazine	3300	170	7.4	ug/kg wet	2060	63	73-133	8	20	L5

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Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
LCS Dup Analyzed: 10/15/09 (Lab Number:9J13065-BSD1, Batch: 9J13065)											
Benzaldehyde		3300	170	18	ug/kg wet	2380	72	21-120	23	20	R2
Benzo[a]anthracene		3300	170	2.9	ug/kg wet	3280	99	65-133	2	15	
Benzo[a]pyrene		3300	170	4.0	ug/kg wet	3450	105	64-127	2	15	
Benzo[b]fluoranthene		3300	170	3.2	ug/kg wet	3360	102	64-135	6	15	
Benzo[g,h,i]perylene		3300	170	2.0	ug/kg wet	3340	101	50-152	4	15	
Benzo[k]fluoranthene		3300	170	1.8	ug/kg wet	3230	98	58-138	12	22	
1,1'-Biphenyl		3300	170	10	ug/kg wet	2760	84	71-120	0.5	20	
Bis(2-chloroethoxy)methane		3300	170	9.1	ug/kg wet	2040	82	61-133	0.6	17	
Bis(2-chloroethyl)ether		3300	170	14	ug/kg wet	2100	64	45-120	4	21	
2,2'-Oxybis(1-Chloropropene)		3300	170	17	ug/kg wet	2610	79	44-120	5	24	
Bis(2-ethylhexyl)phthalate		3300	170	54	ug/kg wet	3220	97	61-133	0.2	15	
Butyl benzyl phthalate		3300	170	45	ug/kg wet	3510	106	61-129	1	16	
Caprolactam		3300	170	72	ug/kg wet	2920	88	54-133	0.02	20	
Carbazole		3300	170	1.9	ug/kg wet	3180	98	59-129	1	20	
Chrysene		3300	170	1.7	ug/kg wet	3360	102	64-131	3	15	
Dibenz[a,h]anthracene		3300	170	2.0	ug/kg wet	3270	99	54-148	5	15	
Dibenzofuran		3300	170	1.7	ug/kg wet	2980	90	56-120	0.8	15	
Diethyl phthalate		3300	170	5.0	ug/kg wet	3250	98	66-128	1	15	
Dimethyl phthalate		3300	170	4.4	ug/kg wet	3120	95	65-124	0.8	15	
Di-n-butyl phthalate		3300	170	58	ug/kg wet	3240	98	58-130	0.4	15	
Di-n-octyl phthalate		3300	170	3.9	ug/kg wet	3160	96	62-133	0.3	16	
Fluoranthene		3300	170	2.4	ug/kg wet	3220	98	62-131	2	15	
Fluorene		3300	170	3.8	ug/kg wet	3150	96	63-126	1	15	
Hexachlorobenzene		3300	170	8.3	ug/kg wet	2970	90	60-132	3	15	
Hexachlorobutadiene		3300	170	8.5	ug/kg wet	2480	75	45-120	1	44	
Hexachlorocyclopentadiene		3300	170	51	ug/kg wet	2410	73	31-120	2	49	
Hexachloroethane		3300	170	13	ug/kg wet	2150	65	41-120	8	46	
Indeno[1,2,3-cd]pyrene		3300	170	4.6	ug/kg wet	3380	103	56-149	3	15	
Isophorone		3300	170	8.3	ug/kg wet	2660	81	56-120	0.2	17	
Naphthalene		3300	170	2.8	ug/kg wet	2570	78	46-120	2	29	
Nitrobenzene		3300	170	7.4	ug/kg wet	2650	80	49-120	3	24	
N-Nitrosodi-n-propylamine		3300	170	13	ug/kg wet	2710	82	46-120	2	31	
N-Nitrosodiphenylamine		3300	170	9.1	ug/kg wet	3870	117	20-119	0.4	15	
Pentachlorophenol		3300	330	57	ug/kg wet	2800	88	33-136	4	35	
Phenanthrene		3300	170	3.5	ug/kg wet	3250	98	60-130	2	15	

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A2L Technologies  
10220 Hamey Road, NE  
Thonotosassa, FL 33592

Work Order: RSJ0643

Project: Clabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
LCS Dup Analyzed: 10/15/09 (Lab Number:9J13065-BSD1, Batch: 9J13065)											
Phenol		3300	170	18	ug/kg wet	2480	75	36-120	1	35	
Pyrene		3300	170	1.1	ug/kg wet	3300	100	51-133	0.4	35	
Surrogate:					ug/kg wet		95	39-146			
2,4,6-Tribromophenol					ug/kg wet		89	37-120			
Surrogate:					ug/kg wet		66	18-120			
2-Fluorobiphenyl					ug/kg wet		87	34-132			
Surrogate:					ug/kg wet		74	11-120			
2-Fluorophenol					ug/kg wet		88	58-147			
Surrogate:					ug/kg wet						
Nitrobenzene-d5					ug/kg wet						
Surrogate: Phenol-d5					ug/kg wet						
Surrogate:					ug/kg wet						
p-Terphenyl-d14					ug/kg wet						



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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics TICs by GC/MS</u></b>											
<b>Blank Analyzed: 10/13/09 (Lab Number:9J12044-BLK1, Batch: 9J12044)</b>											
Benzenesulfonamide, N-butyl-			NA		ug/L	43					T7
Unknown01			NA		ug/L	7.4					T7
Unknown02			NA		ug/L	8.3					T7
Unknown03			NA		ug/L	9.9					T7
Unknown04			NA		ug/L	47					T7
Unknown05			NA		ug/L	11					T7
Unknown06			NA		ug/L	9.3					T7
Unknown07			NA		ug/L	13					T7
Unknown08			NA		ug/L	16					T7
Unknown09			NA		ug/L	10					T7
Unknown10			NA		ug/L	20					T7
Unknown11			NA		ug/L	9.6					T7
Unknown12			NA		ug/L	8.1					T7
UNKNOWN13			NA		ug/L	36					T7
Unknown14			NA		ug/L	4.3					T7
Unknown15			NA		ug/L	7.2					T7
Unknown16			NA		ug/L	8.2					T7
Unknown17			NA		ug/L	4.3					T7

### **Semivolatile Organics TICs by GC/MS**

**Blank Analyzed: 10/15/09 (Lab Number:9J13065-BLK1, Batch: 9J13065)**

Unknown01			NA		ug/kg wet	240					T7
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Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Organochlorine Pesticides by EPA Method 8081A</b>											
<b>Blank Analyzed: 10/14/09 (Lab Number: 9J09108-BLK1, Batch: 9J09108)</b>											
4,4'-DDD			0.050	0.017	ug/L	ND					
4,4'-DDD [2C]			0.050	0.017	ug/L	ND					
4,4'-DDE			0.050	0.012	ug/L	ND					
4,4'-DDE [2C]			0.050	0.012	ug/L	ND					
4,4'-DDT			0.050	0.011	ug/L	ND					C4
4,4'-DDT [2C]			0.050	0.011	ug/L	ND					
Aldrin			0.050	0.0066	ug/L	ND					
Aldrin [2C]			0.050	0.0066	ug/L	ND					
alpha-BHC			0.050	0.0066	ug/L	ND					C
alpha-BHC [2C]			0.050	0.0066	ug/L	ND					
alpha-Chlordane			0.050	0.015	ug/L	ND					
alpha-Chlordane [2C]			0.050	0.015	ug/L	ND					
beta-BHC			0.050	0.025	ug/L	ND					
beta-BHC [2C]			0.050	0.025	ug/L	ND					
delta-BHC			0.050	0.010	ug/L	ND					
delta-BHC [2C]			0.050	0.010	ug/L	ND					
Dieldrin			0.050	0.020	ug/L	ND					
Dieldrin [2C]			0.050	0.020	ug/L	ND					
Endosulfan I			0.050	0.011	ug/L	ND					
Endosulfan I [2C]			0.050	0.011	ug/L	ND					
Endosulfan II			0.050	0.012	ug/L	ND					
Endosulfan II [2C]			0.050	0.012	ug/L	ND					
Endosulfan sulfate			0.050	0.016	ug/L	ND					
Endosulfan sulfate [2C]			0.050	0.016	ug/L	ND					
Endrin			0.050	0.014	ug/L	ND					
Endrin [2C]			0.050	0.014	ug/L	ND					
Endrin aldehyde			0.050	0.016	ug/L	ND					
Endrin aldehyde [2C]			0.050	0.016	ug/L	ND					
Endrin ketone			0.050	0.012	ug/L	ND					
Endrin ketone [2C]			0.050	0.012	ug/L	ND					
gamma-BHC (Lindane)			0.050	0.0060	ug/L	ND					C
gamma-BHC (Lindane) [2C]			0.050	0.0060	ug/L	ND					
gamma-Chlordane			0.050	0.011	ug/L	ND					
gamma-Chlordane [2C]			0.050	0.011	ug/L	ND					
Heptachlor			0.050	0.0085	ug/L	ND					
Heptachlor [2C]			0.050	0.0085	ug/L	ND					
Heptachlor epoxide			0.050	0.0053	ug/L	ND					

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Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Organochlorine Pesticides by EPA Method 8081A

Blank Analyzed: 10/14/09 (Lab Number: 9J09108-BLK1, Batch: 9J09108)

Heptachlor epoxide [2C]	0.050	0.0053	ug/L	ND
Methoxychlor	0.050	0.014	ug/L	ND
Methoxychlor [2C]	0.050	0.014	ug/L	ND
Toxaphene	0.50	0.12	ug/L	ND
Toxaphene [2C]	0.50	0.12	ug/L	ND

Surrogate:	ug/L	74	15-139
Decachlorobiphenyl	ug/L	63	15-139
Surrogate:	ug/L	60	30-139
Decachlorobiphenyl [2C]	ug/L	65	30-139
Surrogate:	ug/L		
Tetrachloro-m-xylene	ug/L		
Surrogate:	ug/L		
Tetrachloro-m-xylene	ug/L		

LCS Analyzed: 10/14/09 (Lab Number: 9J09108-BS1, Batch: 9J09108)

4,4'-DDD	0.500	0.050	0.017	ug/L	0.415	83	25-139	
4,4'-DDD [2C]	0.500	0.050	0.017	ug/L	0.452	90	25-139	
4,4'-DDE	0.500	0.050	0.012	ug/L	0.387	77	49-127	
4,4'-DDE [2C]	0.500	0.050	0.012	ug/L	0.402	80	49-127	
4,4'-DDT	0.500	0.050	0.011	ug/L	0.375	75	47-130	C4
4,4'-DDT [2C]	0.500	0.050	0.011	ug/L	0.420	84	47-130	
Aldrin	0.500	0.050	0.0066	ug/L	0.396	79	35-120	
Aldrin [2C]	0.500	0.050	0.0066	ug/L	0.370	74	35-120	
alpha-BHC	0.500	0.050	0.0066	ug/L	0.512	102	39-121	C
alpha-BHC [2C]	0.500	0.050	0.0066	ug/L	0.391	78	39-121	
alpha-Chlordane	0.500	0.050	0.015	ug/L	0.391	78	40-160	
alpha-Chlordane [2C]	0.500	0.050	0.015	ug/L	0.412	82	40-160	
beta-BHC	0.500	0.050	0.025	ug/L	0.494	99	39-138	
beta-BHC [2C]	0.500	0.050	0.025	ug/L	0.434	87	39-138	
delta-BHC	0.500	0.050	0.010	ug/L	0.442	88	40-121	
delta-BHC [2C]	0.500	0.050	0.010	ug/L	0.382	76	40-121	
Dieldrin	0.500	0.050	0.020	ug/L	0.402	80	41-131	
Dieldrin [2C]	0.500	0.050	0.020	ug/L	0.407	81	41-131	
Endosulfan I	0.500	0.050	0.011	ug/L	0.369	74	41-126	
Endosulfan I [2C]	0.500	0.050	0.011	ug/L	0.386	77	41-126	
Endosulfan II	0.500	0.050	0.012	ug/L	0.366	73	32-134	
Endosulfan II [2C]	0.500	0.050	0.012	ug/L	0.450	90	32-134	
Endosulfan sulfate	0.500	0.050	0.016	ug/L	0.486	97	46-131	
Endosulfan sulfate [2C]	0.500	0.050	0.016	ug/L	0.472	94	46-131	
Endrin	0.500	0.050	0.014	ug/L	0.415	83	43-134	

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Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Organochlorine Pesticides by EPA Method 8081A

LCS Analyzed: 10/14/09 (Lab Number: 9J09108-BS1, Batch: 9J09108)

Endrin [2C]	0.500	0.050	0.014	ug/L	0.402	80	43-134				
Endrin aldehyde	0.500	0.050	0.016	ug/L	0.401	80	39-128				
Endrin aldehyde [2C]	0.500	0.050	0.016	ug/L	0.518	104	39-128				
Endrin ketone	0.500	0.050	0.012	ug/L	0.449	90	50-150				
Endrin ketone [2C]	0.500	0.050	0.012	ug/L	0.446	89	50-150				
gamma-BHC (Lindane)	0.500	0.050	0.0060	ug/L	0.497	99	68-120				C
gamma-BHC (Lindane) [2C]	0.500	0.050	0.0060	ug/L	0.402	80	68-120				
gamma-Chlordane	0.500	0.050	0.011	ug/L	0.387	77	40-160				
gamma-Chlordane [2C]	0.500	0.050	0.011	ug/L	0.379	76	40-160				
Heptachlor	0.500	0.050	0.0085	ug/L	0.452	90	52-120				
Heptachlor [2C]	0.500	0.050	0.0085	ug/L	0.389	78	52-120				
Heptachlor epoxide	0.500	0.050	0.0053	ug/L	0.419	84	65-120				
Heptachlor epoxide [2C]	0.500	0.050	0.0053	ug/L	0.419	84	65-120				
Methoxychlor	0.500	0.050	0.014	ug/L	0.421	84	52-142				
Methoxychlor [2C]	0.500	0.050	0.014	ug/L	0.475	95	52-142				
Surrogate:				ug/L		77	15-139				
Decachlorobiphenyl				ug/L		62	15-139				
Surrogate:				ug/L		57	30-139				
Decachlorobiphenyl [2C]				ug/L		62	30-139				
Surrogate:				ug/L		62	30-139				
Tetrachloro-m-xylene				ug/L		62	30-139				
Surrogate:				ug/L		62	30-139				
Tetrachloro-m-xylene				ug/L		62	30-139				

LCS Dup Analyzed: 10/14/09 (Lab Number: 9J09108-BSD1, Batch: 9J09108)

4,4'-DDD	0.500	0.050	0.017	ug/L	0.446	89	25-139	7	50		
4,4'-DDD [2C]	0.500	0.050	0.017	ug/L	0.475	95	25-139	5	50		
4,4'-DDE	0.500	0.050	0.012	ug/L	0.413	83	49-127	6	50		
4,4'-DDE [2C]	0.500	0.050	0.012	ug/L	0.429	86	49-127	6	50		
4,4'-DDT	0.500	0.050	0.011	ug/L	0.401	80	47-130	7	50		C4
4,4'-DDT [2C]	0.500	0.050	0.011	ug/L	0.425	85	47-130	1	50		
Aldrin	0.500	0.050	0.0066	ug/L	0.416	84	35-120	5	50		
Aldrin [2C]	0.500	0.050	0.0066	ug/L	0.391	78	35-120	6	50		
alpha-BHC	0.500	0.050	0.0066	ug/L	0.543	109	39-121	6	50		C
alpha-BHC [2C]	0.500	0.050	0.0066	ug/L	0.413	83	39-121	5	50		
alpha-Chlordane	0.500	0.050	0.015	ug/L	0.416	83	40-160	6	50		
alpha-Chlordane [2C]	0.500	0.050	0.015	ug/L	0.437	87	40-160	6	50		
beta-BHC	0.500	0.050	0.025	ug/L	0.529	106	39-138	7	50		
beta-BHC [2C]	0.500	0.050	0.025	ug/L	0.458	92	39-138	5	50		
delta-BHC	0.500	0.050	0.010	ug/L	0.474	95	40-121	7	50		

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Organochlorine Pesticides by EPA Method 8081A

LCS Dup Analyzed: 10/14/09 (Lab Number:9J09108-BSD1, Batch: 9J09108)

della-BHC [2C]	0.500	0.050	0.010	ug/L	0.406	81	40-121	6	50	
Dieldrin	0.500	0.050	0.020	ug/L	0.426	85	41-131	6	50	
Dieldrin [2C]	0.500	0.050	0.020	ug/L	0.432	86	41-131	6	50	
Endosulfan I	0.500	0.050	0.011	ug/L	0.393	79	41-126	6	50	
Endosulfan I [2C]	0.500	0.050	0.011	ug/L	0.410	82	41-126	6	50	
Endosulfan II	0.500	0.050	0.012	ug/L	0.396	79	32-134	8	50	
Endosulfan II [2C]	0.500	0.050	0.012	ug/L	0.467	93	32-134	4	50	
Endosulfan sulfate	0.500	0.050	0.016	ug/L	0.520	104	46-131	7	50	
Endosulfan sulfate [2C]	0.500	0.050	0.016	ug/L	0.500	100	46-131	8	50	
Endrin	0.500	0.050	0.014	ug/L	0.441	88	43-134	6	50	
Endrin [2C]	0.500	0.050	0.014	ug/L	0.432	86	43-134	7	50	
Endrin aldehyde	0.500	0.050	0.016	ug/L	0.465	93	39-128	15	50	
Endrin aldehyde [2C]	0.500	0.050	0.016	ug/L	0.554	111	39-128	7	50	
Endrin ketone	0.500	0.050	0.012	ug/L	0.481	96	50-150	7	50	
Endrin ketone [2C]	0.500	0.050	0.012	ug/L	0.473	95	50-150	6	50	
gamma-BHC (Lindane)	0.500	0.050	0.0060	ug/L	0.529	106	68-120	6	50	C
gamma-BHC (Lindane) [2C]	0.500	0.050	0.0060	ug/L	0.425	85	68-120	6	50	
gamma-Chlordane	0.500	0.050	0.011	ug/L	0.413	83	40-160	7	50	
gamma-Chlordane [2C]	0.500	0.050	0.011	ug/L	0.407	81	40-160	7	50	
Heptachlor	0.500	0.050	0.0085	ug/L	0.483	97	52-120	7	50	
Heptachlor [2C]	0.500	0.050	0.0085	ug/L	0.413	83	52-120	6	50	
Heptachlor epoxide	0.500	0.050	0.0053	ug/L	0.446	89	65-120	6	50	
Heptachlor epoxide [2C]	0.500	0.050	0.0053	ug/L	0.444	89	65-120	6	50	
Methoxychlor	0.500	0.050	0.014	ug/L	0.452	90	52-142	7	50	
Methoxychlor [2C]	0.500	0.050	0.014	ug/L	0.502	100	52-142	6	50	
Surrogate: Decachlorobiphenyl				ug/L		77	15-139			
Surrogate: Decachlorobiphenyl [2C]				ug/L		63	15-139			
Surrogate: Tetrachloro-m-xylene				ug/L		60	30-139			
Surrogate: Tetrachloro-m-xylene				ug/L		66	30-139			

#### Organochlorine Pesticides by EPA Method 8081A

Blank Analyzed: 10/15/09 (Lab Number:9J10008-BLK1, Batch: 9J10008)

4,4'-DDD	1.6	0.32	ug/kg wet	ND	QSU,QFL
4,4'-DDD [2C]	1.6	0.32	ug/kg wet	ND	QSU,QFL

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Work Order: RSJ0643

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Organochlorine Pesticides by EPA Method 8081A</b>											
Blank Analyzed: 10/15/09 (Lab Number:9J10008-BLK1, Batch: 9J10008)											
4,4'-DDE			1.6	0.47	ug/kg wet	ND					QSU,QFL
4,4'-DDE [2C]			1.6	0.47	ug/kg wet	ND					QSU,QFL
4,4'-DDT			1.6	0.37	ug/kg wet	ND					QSU,QFL
4,4'-DDT [2C]			1.6	0.37	ug/kg wet	ND					QSU,QFL
Aldrin			1.6	0.17	ug/kg wet	ND					QSU,QFL
Aldrin [2C]			1.6	0.17	ug/kg wet	ND					QSU,QFL
alpha-BHC			1.6	0.30	ug/kg wet	ND					QSU,QFL, C
alpha-BHC [2C]			1.6	0.30	ug/kg wet	ND					QSU,QFL
alpha-Chlordane			1.6	0.82	ug/kg wet	ND					QSU,QFL
alpha-Chlordane [2C]			1.6	0.82	ug/kg wet	ND					QSU,QFL
beta-BHC			1.6	1.2	ug/kg wet	ND					QSU,QFL, C
beta-BHC [2C]			1.6	1.2	ug/kg wet	ND					QSU,QFL
delta-BHC			1.6	0.22	ug/kg wet	ND					QSU,QFL
delta-BHC [2C]			1.6	0.22	ug/kg wet	ND					QSU,QFL
Dieldrin			1.6	0.39	ug/kg wet	ND					QSU,QFL
Dieldrin [2C]			1.6	0.39	ug/kg wet	ND					QSU,QFL
Endosulfan I			1.6	0.35	ug/kg wet	ND					QSU,QFL
Endosulfan I [2C]			1.6	0.35	ug/kg wet	ND					QSU,QFL
Endosulfan II			1.6	0.30	ug/kg wet	ND					QSU,QFL
Endosulfan II [2C]			1.6	0.30	ug/kg wet	ND					QSU,QFL
Endosulfan sulfate			1.6	0.31	ug/kg wet	ND					QSU,QFL
Endosulfan sulfate [2C]			1.6	0.31	ug/kg wet	ND					QSU,QFL
Endrin			1.6	0.53	ug/kg wet	ND					QSU,QFL
Endrin [2C]			1.6	0.53	ug/kg wet	ND					QSU,QFL
Endrin aldehyde			1.6	0.42	ug/kg wet	ND					QSU,QFL
Endrin aldehyde [2C]			1.6	0.42	ug/kg wet	ND					QSU,QFL
Endrin ketone			1.6	0.40	ug/kg wet	ND					QSU,QFL
Endrin ketone [2C]			1.6	0.40	ug/kg wet	ND					QSU,QFL
gamma-BHC (Lindane)			1.6	0.29	ug/kg wet	ND					QSU,QFL, C
gamma-BHC (Lindane) [2C]			1.6	0.29	ug/kg wet	ND					QSU,QFL
gamma-Chlordane			1.6	0.23	ug/kg wet	ND					QSU,QFL
gamma-Chlordane [2C]			1.6	0.23	ug/kg wet	ND					QSU,QFL
Heptachlor			1.6	0.26	ug/kg wet	ND					QSU,QFL
Heptachlor [2C]			1.6	0.26	ug/kg wet	ND					QSU,QFL
Heptachlor epoxide			1.6	0.42	ug/kg wet	ND					QSU,QFL

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Thonotosassa, FL 33592

Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Organochlorine Pesticides by EPA Method 8081A

Blank Analyzed: 10/15/09 (Lab Number: 9J10008-BLK1, Batch: 9J10008)

Heptachlor epoxide [2C]			1.6	0.42	ug/kg wet	ND					QSU,QFL
Methoxychlor			1.6	0.44	ug/kg wet	ND					QSU,QFL
Methoxychlor [2C]			1.6	0.44	ug/kg wet	ND					QSU,QFL
Toxaphene			16	9.6	ug/kg wet	ND					QSU,QFL
Toxaphene [2C]			16	9.6	ug/kg wet	ND					QSU,QFL

Surrogate: Decachlorobiphenyl					ug/kg wet		96	42-146			QSU,QFL
Surrogate: Decachlorobiphenyl [2C]					ug/kg wet		92	42-146			QSU,QFL
Surrogate: Tetrachloro-m-xylene					ug/kg wet		69	37-136			QSU,QFL
Surrogate: Tetrachloro-m-xylene					ug/kg wet		75	37-136			QSU,QFL

LCS Analyzed: 10/15/09 (Lab Number: 9J10008-BS1, Batch: 9J10008)

4,4'-DDD	16.1	1.6	0.31	ug/kg wet	11.7	72	55-129				QSU,QFL
4,4'-DDD [2C]	16.1	1.6	0.31	ug/kg wet	12.9	80	55-129				QSU,QFL
4,4'-DDE	16.1	1.6	0.47	ug/kg wet	11.2	69	59-120				QSU,QFL
4,4'-DDE [2C]	16.1	1.6	0.47	ug/kg wet	12.0	74	59-120				QSU,QFL
4,4'-DDT	16.1	1.6	0.37	ug/kg wet	11.2	69	47-145				QSU,QFL
4,4'-DDT [2C]	16.1	1.6	0.37	ug/kg wet	11.7	72	47-145				QSU,QFL
Aldrin	16.1	1.6	0.16	ug/kg wet	12.0	74	35-120				QSU,QFL
Aldrin [2C]	16.1	1.6	0.16	ug/kg wet	11.6	72	35-120				QSU,QFL
alpha-BHC	16.1	1.6	0.29	ug/kg wet	13.2	82	49-120				QSU,QFL, C
alpha-BHC [2C]	16.1	1.6	0.29	ug/kg wet	11.2	70	49-120				QSU,QFL
alpha-Chlordane	16.1	1.6	0.80	ug/kg wet	11.0	68	55-120				QSU,QFL
alpha-Chlordane [2C]	16.1	1.6	0.80	ug/kg wet	12.1	75	55-120				QSU,QFL
beta-BHC	16.1	1.6	1.2	ug/kg wet	13.4	83	56-120				QSU,QFL, C
beta-BHC [2C]	16.1	1.6	1.2	ug/kg wet	12.0	74	56-120				QSU,QFL
delta-BHC	16.1	1.6	0.21	ug/kg wet	12.4	77	45-123				QSU,QFL
delta-BHC [2C]	16.1	1.6	0.21	ug/kg wet	11.6	72	45-123				QSU,QFL
Dieldrin	16.1	1.6	0.39	ug/kg wet	11.3	70	57-120				QSU,QFL
Dieldrin [2C]	16.1	1.6	0.39	ug/kg wet	11.9	74	57-120				QSU,QFL
Endosulfan I	16.1	1.6	0.34	ug/kg wet	10.5	65	29-125				QSU,QFL
Endosulfan I [2C]	16.1	1.6	0.34	ug/kg wet	11.0	68	29-125				QSU,QFL
Endosulfan II	16.1	1.6	0.29	ug/kg wet	11.1	69	39-121				QSU,QFL
Endosulfan II [2C]	16.1	1.6	0.29	ug/kg wet	11.7	72	39-121				QSU,QFL
Endosulfan sulfate	16.1	1.6	0.30	ug/kg wet	11.5	71	43-120				QSU,QFL
Endosulfan sulfate [2C]	16.1	1.6	0.30	ug/kg wet	12.3	76	43-120				QSU,QFL

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Work Order: RSJ0643

Received: 10/09/09

Reported: 11/03/09 12:07

Project: Ciabattani Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Organochlorine Pesticides by EPA Method 8081A

LCS Analyzed: 10/15/09 (Lab Number:9J10008-BS1, Batch: 9J10008)

Endrin	16.1	1.6	0.52	ug/kg wet	11.7	73	54-127				QSU,QFL
Endrin [2C]	16.1	1.6	0.52	ug/kg wet	13.0	80	54-127				QSU,QFL
Endrin aldehyde	16.1	1.6	0.41	ug/kg wet	8.31	51	33-120				QSU,QFL
Endrin aldehyde [2C]	16.1	1.6	0.41	ug/kg wet	10.7	66	33-120				QSU,QFL
Endrin ketone	16.1	1.6	0.40	ug/kg wet	11.8	73	50-150				QSU,QFL
Endrin ketone [2C]	16.1	1.6	0.40	ug/kg wet	11.3	70	50-150				QSU,QFL
gamma-BHC (Lindane)	16.1	1.6	0.28	ug/kg wet	13.1	81	50-120				QSU,QFL, C
gamma-BHC (Lindane) [2C]	16.1	1.6	0.28	ug/kg wet	11.3	70	50-120				QSU,QFL
gamma-Chlordane	16.1	1.6	0.22	ug/kg wet	11.3	70	61-120				QSU,QFL
gamma-Chlordane [2C]	16.1	1.6	0.22	ug/kg wet	11.9	73	61-120				QSU,QFL
Heptachlor	16.1	1.6	0.25	ug/kg wet	12.9	80	47-120				QSU,QFL
Heptachlor [2C]	16.1	1.6	0.25	ug/kg wet	11.9	74	47-120				QSU,QFL
Heptachlor epoxide	16.1	1.6	0.42	ug/kg wet	11.5	71	44-122				QSU,QFL
Heptachlor epoxide [2C]	16.1	1.6	0.42	ug/kg wet	11.8	73	44-122				QSU,QFL
Methoxychlor	16.1	1.6	0.43	ug/kg wet	11.7	72	46-152				QSU,QFL
Methoxychlor [2C]	16.1	1.6	0.43	ug/kg wet	12.2	76	46-152				QSU,QFL
Surrogate: Decachlorobiphenyl				ug/kg wet		83	42-146				QSU,QFL
Surrogate: Decachlorobiphenyl [2C]				ug/kg wet		78	42-146				QSU,QFL
Surrogate: Tetrachloro-m-xylene				ug/kg wet		62	37-136				QSU,QFL
Surrogate: Tetrachloro-m-xylene				ug/kg wet		67	37-136				QSU,QFL

LCS Dup Analyzed: 10/15/09 (Lab Number:9J10008-BSD1, Batch: 9J10008)

4,4'-DDD	16.4	1.6	0.32	ug/kg wet	12.4	76	55-129	6	50		QSU,QFL
4,4'-DDD [2C]	16.4	1.6	0.32	ug/kg wet	14.2	86	55-129	9	50		QSU,QFL
4,4'-DDE	16.4	1.6	0.47	ug/kg wet	11.9	73	59-120	6	50		QSU,QFL
4,4'-DDE [2C]	16.4	1.6	0.47	ug/kg wet	11.8	72	59-120	1	50		QSU,QFL
4,4'-DDT	16.4	1.6	0.37	ug/kg wet	11.4	70	47-145	2	50		QSU,QFL
4,4'-DDT [2C]	16.4	1.6	0.37	ug/kg wet	11.9	73	47-145	2	50		QSU,QFL
Aldrin	16.4	1.6	0.17	ug/kg wet	12.8	78	35-120	6	50		QSU,QFL
Aldrin [2C]	16.4	1.6	0.17	ug/kg wet	12.3	75	35-120	6	50		QSU,QFL
alpha-BHC	16.4	1.6	0.29	ug/kg wet	14.0	85	49-120	5	50		QSU,QFL, C
alpha-BHC [2C]	16.4	1.6	0.29	ug/kg wet	11.7	71	49-120	4	50		QSU,QFL
alpha-Chlordane	16.4	1.6	0.82	ug/kg wet	11.8	72	55-120	7	50		QSU,QFL
alpha-Chlordane [2C]	16.4	1.6	0.82	ug/kg wet	12.5	76	55-120	3	50		QSU,QFL

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Work Order: RSJ0643  
Project: Cibattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Organochlorine Pesticides by EPA Method 8081A</b>											
LCS Dup Analyzed: 10/15/09 (Lab Number:9J10008-BSD1, Batch: 9J10008)											
beta-BHC		16.4	1.6	1.2	ug/kg wet	14.1	86	56-120	5	50	QSU,QFL, C
beta-BHC [2C]		16.4	1.6	1.2	ug/kg wet	12.6	77	56-120	5	50	QSU,QFL
delta-BHC		16.4	1.6	0.22	ug/kg wet	13.0	80	45-123	5	50	QSU,QFL
delta-BHC [2C]		16.4	1.6	0.22	ug/kg wet	12.2	74	45-123	5	50	QSU,QFL
Dieldrin		16.4	1.6	0.39	ug/kg wet	11.9	73	57-120	5	50	QSU,QFL
Dieldrin [2C]		16.4	1.6	0.39	ug/kg wet	11.7	72	57-120	1	50	QSU,QFL
Endosulfan I		16.4	1.6	0.35	ug/kg wet	11.1	68	29-125	6	50	QSU,QFL
Endosulfan I [2C]		16.4	1.6	0.35	ug/kg wet	11.4	70	29-125	3	50	QSU,QFL
Endosulfan II		16.4	1.6	0.29	ug/kg wet	11.6	71	39-121	4	50	QSU,QFL
Endosulfan II [2C]		16.4	1.6	0.29	ug/kg wet	13.1	80	39-121	12	50	QSU,QFL
Endosulfan sulfate		16.4	1.6	0.31	ug/kg wet	11.1	68	43-120	3	50	QSU,QFL
Endosulfan sulfate [2C]		16.4	1.6	0.31	ug/kg wet	11.8	72	43-120	5	50	QSU,QFL
Endrin		16.4	1.6	0.53	ug/kg wet	12.4	76	54-127	5	50	QSU,QFL
Endrin [2C]		16.4	1.6	0.53	ug/kg wet	14.1	86	54-127	8	50	QSU,QFL
Endrin aldehyde		16.4	1.6	0.42	ug/kg wet	7.22	44	33-120	14	50	QSU,QFL
Endrin aldehyde [2C]		16.4	1.6	0.42	ug/kg wet	9.85	60	33-120	8	50	QSU,QFL
Endrin ketone		16.4	1.6	0.40	ug/kg wet	11.7	72	50-150	0.4	50	QSU,QFL
Endrin ketone [2C]		16.4	1.6	0.40	ug/kg wet	11.3	69	50-150	0.5	50	QSU,QFL
gamma-BHC (Lindane)		16.4	1.6	0.28	ug/kg wet	13.8	84	50-120	5	50	QSU,QFL, C
gamma-BHC (Lindane) [2C]		16.4	1.6	0.28	ug/kg wet	11.9	72	50-120	5	50	QSU,QFL
gamma-Chlordane		16.4	1.6	0.23	ug/kg wet	11.9	73	61-120	5	50	QSU,QFL
gamma-Chlordane [2C]		16.4	1.6	0.23	ug/kg wet	12.5	76	61-120	5	50	QSU,QFL
Heptachlor		16.4	1.6	0.26	ug/kg wet	13.5	83	47-120	5	50	QSU,QFL
Heptachlor [2C]		16.4	1.6	0.26	ug/kg wet	12.4	76	47-120	4	50	QSU,QFL
Heptachlor epoxide		16.4	1.6	0.42	ug/kg wet	12.2	74	44-122	6	50	QSU,QFL
Heptachlor epoxide [2C]		16.4	1.6	0.42	ug/kg wet	12.8	78	44-122	9	50	QSU,QFL
Methoxychlor		16.4	1.6	0.44	ug/kg wet	12.0	73	46-152	2	50	QSU,QFL
Methoxychlor [2C]		16.4	1.6	0.44	ug/kg wet	12.2	74	46-152	0.2	50	QSU,QFL
Surrogate: Decachlorobiphenyl					ug/kg wet		87	42-146			QSU,QFL
Surrogate: Decachlorobiphenyl [2C]					ug/kg wet		82	42-146			QSU,QFL
Surrogate: Tetrachloro-m-xylene					ug/kg wet		64	37-136			QSU,QFL
Surrogate: Tetrachloro-m-xylene					ug/kg wet		69	37-136			QSU,QFL

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Work Order: RSJ0643

Received: 10/09/09  
Reported: 11/03/09 12:07

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Polychlorinated Biphenyls by EPA Method 8082

Blank Analyzed: 10/12/09 (Lab Number:9J09109-BLK1, Batch: 9J09109)

Aroclor 1016			0.50	0.18	ug/L	ND					
Aroclor 1016 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1221			0.50	0.18	ug/L	ND					
Aroclor 1221 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1232			0.50	0.18	ug/L	ND					
Aroclor 1232 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1242			0.50	0.18	ug/L	ND					
Aroclor 1242 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1248			0.50	0.18	ug/L	ND					
Aroclor 1248 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1254			0.50	0.25	ug/L	ND					
Aroclor 1254 [2C]			0.50	0.25	ug/L	ND					
Aroclor 1260			0.50	0.25	ug/L	ND					
Aroclor 1260 [2C]			0.50	0.25	ug/L	ND					
Aroclor 1262			0.50	0.25	ug/L	ND					
Aroclor 1262 [2C]			0.50	0.25	ug/L	ND					
Aroclor 1268			0.50	0.25	ug/L	ND					
Aroclor 1268 [2C]			0.50	0.25	ug/L	ND					

Surrogate:					ug/L	73	12-137				
Decachlorobiphenyl					ug/L	64	12-137				
Surrogate:					ug/L	68	35-121				
Decachlorobiphenyl [2C]					ug/L	56	35-121				
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						

LCS Analyzed: 10/12/09 (Lab Number:9J09109-BS1, Batch: 9J09109)

Aroclor 1016	5.00	0.50	0.18	ug/L	4.25	85	61-123				
Aroclor 1016 [2C]	5.00	0.50	0.18	ug/L	3.57	71	61-123				
Aroclor 1260	5.00	0.50	0.25	ug/L	4.58	92	52-128				
Aroclor 1260 [2C]	5.00	0.50	0.25	ug/L	3.78	76	52-128				

Surrogate:					ug/L	91	12-137				
Decachlorobiphenyl					ug/L	78	12-137				
Surrogate:					ug/L	78	35-121				
Decachlorobiphenyl [2C]					ug/L	60	35-121				
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						

LCS Dup Analyzed: 10/12/09 (Lab Number:9J09109-BS1, Batch: 9J09109)

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Polychlorinated Biphenyls by EPA Method 8082

LCS Dup Analyzed: 10/12/09 (Lab Number:9J09109-BS01, Batch: 9J09109)

Aroclor 1016	5.00	0.50	0.18	ug/L	4.39	88	61-123	3	50	
Aroclor 1016 [2C]	5.00	0.50	0.18	ug/L	3.73	75	61-123	4	50	
Aroclor 1260	5.00	0.50	0.25	ug/L	4.76	95	52-128	4	50	
Aroclor 1260 [2C]	5.00	0.50	0.25	ug/L	4.06	81	52-128	7	50	

Surrogate:				ug/L	81	12-137				
Decachlorobiphenyl				ug/L	69	12-137				
Surrogate:				ug/L	87	35-121				
Decachlorobiphenyl [2C]				ug/L	67	35-121				
Surrogate:				ug/L						
Tetrachloro-m-xylene				ug/L						
Surrogate:				ug/L						
Tetrachloro-m-xylene				ug/L						

#### Polychlorinated Biphenyls by EPA Method 8082

Blank Analyzed: 10/18/09 (Lab Number:9J16100-BLK1, Batch: 9J16100)

Aroclor 1016	16	3.2	ug/kg wet	ND		QSU
Aroclor 1016 [2C]	16	3.2	ug/kg wet	ND		QSU
Aroclor 1221	16	3.2	ug/kg wet	ND		QSU
Aroclor 1221 [2C]	16	3.2	ug/kg wet	ND		QSU
Aroclor 1232	16	3.2	ug/kg wet	ND		QSU
Aroclor 1232 [2C]	16	3.2	ug/kg wet	ND		QSU
Aroclor 1242	16	3.6	ug/kg wet	ND		QSU
Aroclor 1242 [2C]	16	3.6	ug/kg wet	ND		QSU
Aroclor 1248	16	3.2	ug/kg wet	ND		QSU
Aroclor 1248 [2C]	16	3.2	ug/kg wet	ND		QSU
Aroclor 1254	16	3.5	ug/kg wet	ND		QSU
Aroclor 1254 [2C]	16	3.5	ug/kg wet	ND		QSU
Aroclor 1260	16	3.5	ug/kg wet	ND		QSU
Aroclor 1260 [2C]	16	3.5	ug/kg wet	ND		QSU
Aroclor 1262	16	3.5	ug/kg wet	ND		QSU
Aroclor 1262 [2C]	16	3.5	ug/kg wet	ND		QSU
Aroclor 1268	16	3.5	ug/kg wet	ND		QSU
Aroclor 1268 [2C]	16	3.5	ug/kg wet	ND		QSU

Surrogate:			ug/kg wet	110	34-148	QSU
Decachlorobiphenyl			ug/kg wet	95	34-148	QSU
Surrogate:			ug/kg wet	96	35-134	QSU
Decachlorobiphenyl [2C]			ug/kg wet	76	35-134	QSU
Surrogate:			ug/kg wet			
Tetrachloro-m-xylene			ug/kg wet			
Surrogate:			ug/kg wet			
Tetrachloro-m-xylene			ug/kg wet			

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Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Polychlorinated Biphenyls by EPA Method 8082

LCS Analyzed: 10/18/09 (Lab Number: 9J16100-BS1, Batch: 9J16100)

Aroclor 1016		164	16	3.2	ug/kg wet	132	81	59-154			QSU
Aroclor 1016 [2C]		164	16	3.2	ug/kg wet	112	68	59-154			QSU
Aroclor 1260		164	16	3.5	ug/kg wet	159	97	51-179			QSU
Aroclor 1260 [2C]		164	16	3.5	ug/kg wet	130	79	51-179			QSU

Surrogate:					ug/kg wet		101	34-148			QSU
Decachlorobiphenyl					ug/kg wet		81	34-148			QSU
Surrogate:					ug/kg wet		84	35-134			QSU
Decachlorobiphenyl [2C]					ug/kg wet		65	35-134			QSU
Surrogate:					ug/kg wet						
Tetrachloro-m-xylene					ug/kg wet						
Surrogate:					ug/kg wet						
Tetrachloro-m-xylene					ug/kg wet						

LCS Dup Analyzed: 10/18/09 (Lab Number: 9J16100-BSD1, Batch: 9J16100)

Aroclor 1016		165	17	3.2	ug/kg wet	140	85	59-154	6	50	QSU
Aroclor 1016 [2C]		165	17	3.2	ug/kg wet	118	71	59-154	5	50	QSU
Aroclor 1260		165	17	3.5	ug/kg wet	173	105	51-179	8	50	QSU
Aroclor 1260 [2C]		165	17	3.5	ug/kg wet	141	85	51-179	8	50	QSU

Surrogate:					ug/kg wet		106	34-148			QSU
Decachlorobiphenyl					ug/kg wet		88	34-148			QSU
Surrogate:					ug/kg wet		89	35-134			QSU
Decachlorobiphenyl [2C]					ug/kg wet		71	35-134			QSU
Surrogate:					ug/kg wet						
Tetrachloro-m-xylene					ug/kg wet						
Surrogate:					ug/kg wet						
Tetrachloro-m-xylene					ug/kg wet						

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Work Order: RSJ0643

Project: Ciabattoni Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Total Metals by SW 846 Series Methods

Blank Analyzed: 10/13/09 (Lab Number:9J12069-BLK1, Batch: 9J12069)

Aluminum			0.200	0.040	mg/L	ND					
Antimony			0.0200	0.0068	mg/L	ND					
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	ND					
Beryllium			0.0020	0.0002	mg/L	ND					
Cadmium			0.0010	0.0003	mg/L	ND					
Calcium			0.5	0.1	mg/L	ND					
Chromium			0.0040	0.0009	mg/L	ND					
Cobalt			0.0040	0.0006	mg/L	ND					
Copper			0.0100	0.0013	mg/L	ND					
Iron			0.050	0.019	mg/L	ND					
Lead			0.0050	0.0030	mg/L	ND					
Magnesium			0.200	0.043	mg/L	ND					
Manganese			0.0030	0.0002	mg/L	ND					
Nickel			0.0100	0.0013	mg/L	ND					
Potassium			0.500	0.050	mg/L	ND					
Selenium			0.0150	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	ND					
Sodium			1.0	0.3	mg/L	ND					
Thallium			0.0200	0.0102	mg/L	ND					
Vanadium			0.0050	0.0011	mg/L	ND					
Zinc			0.0100	0.0015	mg/L	ND					

LCS Analyzed: 10/13/09 (Lab Number:9J12069-BS1, Batch: 9J12069)

Aluminum	10.0	0.200	0.040	mg/L	9.88	100	80-120
Antimony	0.200	0.0200	0.0068	mg/L	0.199	100	80-120
Arsenic	0.200	0.0100	0.0056	mg/L	0.206	103	80-120
Barium	0.200	0.0020	0.0003	mg/L	0.206	103	80-120
Beryllium	0.200	0.0020	0.0002	mg/L	0.202	101	80-120
Cadmium	0.200	0.0010	0.0003	mg/L	0.201	100	80-120
Calcium	10.0	0.5	0.1	mg/L	10.2	102	80-120
Chromium	0.200	0.0040	0.0009	mg/L	0.204	102	80-120
Cobalt	0.200	0.0040	0.0006	mg/L	0.204	102	80-120
Copper	0.200	0.0100	0.0013	mg/L	0.210	105	80-120
Iron	10.0	0.050	0.019	mg/L	9.95	100	80-120
Lead	0.200	0.0050	0.0030	mg/L	0.205	102	80-120
Magnesium	10.0	0.200	0.043	mg/L	10.2	102	80-120
Manganese	0.200	0.0030	0.0002	mg/L	0.202	101	80-120

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Received: 10/09/09  
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## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Total Metals by SW 846 Series Methods

LCS Analyzed: 10/13/09 (Lab Number:9J12069-BS1, Batch: 9J12069)

Nickel		0.200	0.0100	0.0013	mg/L	0.201	101	80-120			
Potassium		10.0	0.500	0.050	mg/L	10.4	104	80-120			
Selenium		0.200	0.0150	0.0087	mg/L	0.204	102	80-120			
Silver		0.0500	0.0030	0.0012	mg/L	0.0512	102	80-120			
Sodium		10.0	1.0	0.3	mg/L	10.2	102	80-120			
Thallium		0.200	0.0200	0.0102	mg/L	0.200	100	80-120			
Vanadium		0.200	0.0050	0.0011	mg/L	0.204	102	80-120			
Zinc		0.200	0.0100	0.0015	mg/L	0.205	103	80-120			

### Total Metals by SW 846 Series Methods

Blank Analyzed: 10/20/09 (Lab Number:9J15055-BLK1, Batch: 9J15055)

Aluminum		10.0	1.3	mg/kg wet	ND						
Antimony		15.0	0.5	mg/kg wet	ND						
Arsenic		2.0	0.2	mg/kg wet	0.3						B,J
Barium		0.500	0.026	mg/kg wet	ND						
Beryllium		0.200	0.010	mg/kg wet	0.013						B,J
Cadmium		0.200	0.040	mg/kg wet	ND						
Calcium		50.0	10.0	mg/kg wet	ND						
Chromium		0.500	0.090	mg/kg wet	ND						
Cobalt		0.500	0.050	mg/kg wet	ND						
Copper		1.0	0.1	mg/kg wet	ND						
Iron		10.0	3.0	mg/kg wet	ND						
Lead		1.0	0.1	mg/kg wet	ND						
Magnesium		20.0	0.9	mg/kg wet	1.5						B,J
Manganese		0.2	0.03	mg/kg wet	0.5						B
Nickel		5.00	0.080	mg/kg wet	ND						
Potassium		30.0	4.9	mg/kg wet	ND						
Selenium		4.0	0.6	mg/kg wet	ND						
Silver		0.500	0.070	mg/kg wet	ND						
Sodium		140	31.0	mg/kg wet	ND						
Thallium		6.0	0.3	mg/kg wet	ND						
Vanadium		0.500	0.040	mg/kg wet	ND						
Zinc		2.0	0.2	mg/kg wet	0.2						B,J

Reference Analyzed: 10/20/09 (Lab Number:9J15055-SRM1, Batch: 9J15055)

Aluminum	11000	10.0	1.3	mg/kg wet	8880	81	55.7-143.6
Antimony	81.7	15.0	0.5	mg/kg wet	44.6	55	0-203.7

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Work Order: RSJ0643

Project: Ciabattini Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Total Metals by SW 846 Series Methods</b>											
<b>Reference Analyzed: 10/20/09 (Lab Number:9J15055-SRM1, Batch: 9J15055)</b>											
Arsenic		158	2.0	0.2	mg/kg wet	142	90	81.6-118.4			B
Barium		349	0.501	0.026	mg/kg wet	311	89	80.7-119.3			
Beryllium		106	0.200	0.010	mg/kg wet	97.1	91	81.6-118.9			B
Cadmium		187	0.200	0.040	mg/kg wet	178	95	82.4-117.6			
Calcium		9670	50.1	10.0	mg/kg wet	9270	96	80.8-119.2			
Chromium		89.7	0.501	0.090	mg/kg wet	87.5	98	78.8-120.7			
Cobalt		278	0.501	0.050	mg/kg wet	271	98	80.9-119.1			
Copper		129	1.0	0.1	mg/kg wet	124	96	83.7-117.1			
Iron		18600	10.0	3.0	mg/kg wet	14500	78	50.4-148.9			
Lead		172	1.0	0.1	mg/kg wet	152	88	79.1-120.3			
Magnesium		5040	20.0	0.9	mg/kg wet	4590	91	78.7-121.3			B
Manganese		634	0.2	0.03	mg/kg wet	604	95	81.8-118			B1,B
Nickel		99.2	5.01	0.080	mg/kg wet	96.9	98	81.2-119.2			
Potassium		4020	30.1	4.9	mg/kg wet	3680	92	73.6-126.4			
Selenium		148	4.0	0.6	mg/kg wet	143	97	78.4-120.9			
Silver		66.1	0.501	0.070	mg/kg wet	59.0	89	66.2-133.6			
Sodium		885	140	31.1	mg/kg wet	784	89	73.7-125.7			
Thallium		269	6.0	0.3	mg/kg wet	254	94	77.6-122.4			
Vanadium		194	0.501	0.040	mg/kg wet	180	93	79.4-120.1			
Zinc		395	2.0	0.2	mg/kg wet	363	92	80.5-119.3			B

### Total Metals by SW 846 Series Methods

**Blank Analyzed: 10/17/09 (Lab Number:9J17027-BLK1, Batch: 9J17027)**

Mercury	0.0002	0.0001	mg/L	ND
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**LCS Analyzed: 10/17/09 (Lab Number:9J17027-BS1, Batch: 9J17027)**

Mercury	0.00667	0.0002	0.0001	mg/L	0.00613	92	80-120
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Work Order: RSJ0643  
Project: Ciabattone Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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### Total Metals by SW 846 Series Methods

Blank Analyzed: 10/20/09 (Lab Number:9J19064-BLK1, Batch: 9J19064)

Mercury			0.0192	0.0078	mg/kg wet	NO					
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Matrix Spike Analyzed: 10/20/09 (Lab Number:9J19064-MS1, Batch: 9J19064)

QC Source Sample: RSJ0643-01

Mercury	0.0101	0.389	0.0233	0.0094	mg/kg dry	0.419	105	75-125			
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Matrix Spike Dup Analyzed: 10/20/09 (Lab Number:9J19064-MSD1, Batch: 9J19064)

QC Source Sample: RSJ0643-01

Mercury	0.0101	0.364	0.0219	0.0088	mg/kg dry	0.395	106	75-125	6	20	
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Reference Analyzed: 10/20/09 (Lab Number:9J19064-SRM1, Batch: 9J19064)

Mercury		6.80	0.391	0.158	mg/kg wet	5.99	88	71.8-128.2			
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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### General Chemistry Parameters

Blank Analyzed: 10/16/09 (Lab Number:9J14035-BLK1, Batch: 9J14035)

Cyanide			1.0	0.5	mg/kg wet	ND					
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LCS Analyzed: 10/16/09 (Lab Number:9J14035-BS1, Batch: 9J14035)

Cyanide		60.6	1.8	0.9	mg/kg wet	53.2	88	40-160			
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Duplicate Analyzed: 10/16/09 (Lab Number:9J14035-DUP1, Batch: 9J14035)

QC Source Sample: RSJ0643-02

Cyanide	ND		1.0	0.5	mg/kg dry	ND				15	
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Matrix Spike Analyzed: 10/16/09 (Lab Number:9J14035-MS1, Batch: 9J14035)

QC Source Sample: RSJ0643-02

Cyanide	ND	10.6	1.1	0.5	mg/kg dry	10.6	100	85-115			
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#### General Chemistry Parameters

Blank Analyzed: 10/16/09 (Lab Number:9J14038-BLK1, Batch: 9J14038)

Cyanide			0.0100	0.0050	mg/L	ND					
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LCS Analyzed: 10/16/09 (Lab Number:9J14038-BS1, Batch: 9J14038)

Cyanide		0.400	0.0100	0.0050	mg/L	0.277	69	90-110			
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## SDG Narrative

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Work Order: RSJ0643

Project: Ciabattoli Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
S1	RSJ0643-01	Solid	10/06/09 10:00	10/09/09 09:20	
S2	RSJ0643-02	Solid	10/06/09 10:15	10/09/09 09:20	
S3	RSJ0643-03	Solid	10/06/09 11:00	10/09/09 09:20	
S4	RSJ0643-04	Solid	10/06/09 11:15	10/09/09 09:20	
S5	RSJ0643-05	Solid	10/06/09 12:15	10/09/09 09:20	
S6	RSJ0643-06	Solid	10/06/09 12:30	10/09/09 09:20	
S7	RSJ0643-07	Solid	10/06/09 11:15	10/09/09 09:20	
S8	RSJ0643-08	Solid	10/06/09 15:45	10/09/09 09:20	
S9	RSJ0643-09	Solid	10/06/09	10/09/09 09:20	
S10	RSJ0643-10	Solid	10/06/09	10/09/09 09:20	
W1	RSJ0643-11	Ground Water	10/07/09 11:40	10/09/09 09:20	
W2	RSJ0643-12	Ground Water	10/07/09 14:19	10/09/09 09:20	
W3	RSJ0643-13	Ground Water	10/07/09 17:21	10/09/09 09:20	
W4	RSJ0643-14	Ground Water	10/08/09 10:35	10/09/09 09:20	
W5	RSJ0643-15	Ground Water	10/07/09 15:41	10/09/09 09:20	
W6	RSJ0643-16	Ground Water	10/07/09 18:30	10/09/09 09:20	
W7	RSJ0643-17	Ground Water	10/08/09 08:45	10/09/09 09:20	
W8	RSJ0643-18	Ground Water	10/07/09 18:30	10/09/09 09:20	
TRIP BLANK	RSJ0643-19	Water	10/08/09	10/09/09 09:20	

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### CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

N-Nitrosodiphenylamine recovery was elevated in Laboratory Control Samples (LCS) 9J12044-BS1 and 9J12044-BS2 indicating a possible high bias. This compound was not detected in the associated samples.

Atrazine recovery was below QC limits for Laboratory Control Sample (LCS) 9J13065-BS1 and its duplicate 9J13065-BSD1. The RPD for Benzaldehyde was elevated for the LCS/LCSD pair, though the individual recoveries were within QC limits for this analyte. Individual analyte exceedances for multicomponent analyses are allowed without qualification of the data per NELAC standard.

For the Pesticide dual column analysis, a Form 1 will be provided for both columns for the Quality Control samples (Blanks, Laboratory Control Samples, Matrix Spikes and Duplicates). The primary column for this analysis is the B column.

For the PCB dual column analysis, a Form 1 will be provided for both columns for the Quality Control samples (Blanks, Laboratory Control Samples, Matrix Spikes and Duplicates). The primary column for this analysis is the A column.

Mercury Continuing Calibration Blank RJ91938-CCB4 indicates that the found result is at or above the reporting limit; however, the reporting limit is 0.20 mg/l. The reporting limit listed on the form is taking into account the volumes used for the preparation of the samples. The initial volume is 30 ml and final volume is 50 ml resulting in the reporting limit of 0.12 mg/l presented on the form.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Tony Bogolin  
Project Manager

Tuesday, November 3, 2009

There are pertinent documents appended to this report, 4 pages, are included and are an integral part of this report. Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

TestAmerica Buffalo

Doc. Login/ARRF  
Rev9  
September 28, 2009**Work Order** RS 50643 **Storage #** 9550

Shipment ID \_\_\_\_\_

Strict Internal COC:

YES / NO

Radiation Check &lt;0.02 mR/hr: YES / NO

Residual Chlorine Check: ☐Client A2L TechnologyProject C. H. Brownfield

Pre-log RS \_\_\_\_\_

TAT 15 BD \_\_\_\_\_ CD \_\_\_\_\_# OF SAMPLES 18 TRIP BLANK Y/N # \_\_\_\_\_SHIPPED BY Fedex

ATTACH SHIPPING TAGS

RECEIVED DATE / TIME: 10.9.09 09:20COOLER TEMP 5.20 °C (<6 °C)OK

NO

Cooler Custody Seal intact? YES/NO

NONE

SEAL # \_\_\_\_\_

If NO to cooler temp or seal, PM notified? YES \_\_\_\_\_ (PM Name)

WORKSHARE/SUB YES/NO NO LAB \_\_\_\_\_ Analysis \_\_\_\_\_COMMENTS: SAMPLE TIME (ET) (CT) (MT) (PT) NONE

Sample received outside hold time \_\_\_\_\_

Condition (Issues) Yes/NO NO

Resolved at login \_\_\_\_\_ ARRF \_\_\_\_\_

Tests added from All Analyses list \_\_\_\_\_

PRESERVATION CHECKED YES \_\_\_\_\_ NO \_\_\_\_\_ NA \_\_\_\_\_ Initials \_\_\_\_\_

ARE SAMPLE DATES AND TIMES CORRECT? Initials 17WERE ALL THE APPROPRIATE TESTS ASSIGNED? Initials 17Temp.Cert.Loss: TKN by Method 351.2 for New York, Illinois, New Jersey, Kansas,  
Maine, California, Florida, Louisiana, Texas and Pennsylvania.

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Work Order: RSJ0643

Project: Clabattani Brownfield Site  
Project Number: 48001559-2

Received: 10/09/09  
Reported: 11/03/09 12:07

## DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
C4	Calibration Verification recovery was below the method control limit for this analyte.
D08	Dilution required due to high concentration of target analyte(s)
D10	Dilution required due to sample color
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L5	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
QFL	Florisil clean-up (EPA 3620) performed on extract.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
R2	The RPD exceeded the acceptance limit.
T11	This compound is a calibrated analyte and therefore is qualitatively and quantitatively reported compared to a known standard that is in control.
T7	Tentatively identified compound. Concentration is estimated based on the closest internal standard.
NR	Any inclusion of NR Indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

TIC Analyzed by MS T.I.C. (Tentatively Identified Compound)

## ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

## Chain Of Custody Documentation

## Chain of Custody Record

## Custody Record

Drinking Water? Yes ☐ No ☐

Client <b>ARC Technologies</b>		Project Manager <b>Joe Clemis</b>		Chain of Custody Number <b>159493</b>	
Address <b>10220 HARVEY RD</b>		Telephone Number (Area Code)/Fax Number <b>813.248.8558</b>		Date <b>10/8/9</b>	
City <b>THROWTSASA</b>		State <b>FL</b>		Lab Number <b>1</b> of <b>2</b>	
Zip Code <b>33592</b>		Site Contact <b>Lab Contact</b>		Analysis (Attach list if more space is needed)	
Project Name and Location (State) <b>CIABA HWY BROWNFIELD SITE</b>		Carrier/Waybill Number		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No. <b>w/o RS102269</b>					
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date		Time	
51		10/6/9		1000	
52		10/15		1015	
53		11/00		1100	
54		11/15		1115	
55		12/15		1215	
56		12/30		1230	
57		11/15		1115	
58		15/45		1545	
W1		10/7/9		1140	
W2		14/19		1419	
W3		1721		1721	
W4		10/8/9		1035	
Possible Hazard Identification		Sample Disposal		Return to Client	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input checked="" type="checkbox"/> Skin Irritant <input type="checkbox"/> Person B <input type="checkbox"/> Unknown		<input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months _____		(A fee may be assessed if samples are retained longer than 1 month)	
Turn Around Time Required		1. Rushed By _____		2. Received By _____	
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____		Date <b>10/8/9</b>		Time <b>1508</b>	
3. Retransmitted By _____		Date <b>10/8/9</b>		Time <b>0530</b>	
4. Retransmitted By _____		Date <b>10/8/9</b>		Time <b>1725</b>	

TAI/TCL+30

**DISTRIBUTION:** *WHITR* - Returned to Client with Report; *CANARY* - Stays with the Sample, *PINK* - Field Copy





## Sample Data Package

TestAmerica Buffalo

SDG:

CLASS: VOA

METHOD: 8260B

## ANALYSES DATA PACKAGE COVER PAGE

8260B

Laboratory: TestAmerica Buffalo

SDG:

Client: A2L Technologies

Project: Ciabattoni Brownfield Site

Client Sample Id:	Lab Sample Id:
S1	<u>RSJ0643-01</u>
S2	<u>RSJ0643-02</u>
S3	<u>RSJ0643-03</u>
S4	<u>RSJ0643-04</u>
S5	<u>RSJ0643-05</u>
S6	<u>RSJ0643-06</u>
S7	<u>RSJ0643-07</u>
S8	<u>RSJ0643-08</u>
S9	<u>RSJ0643-09</u>
S10	<u>RSJ0643-10</u>
W1	<u>RSJ0643-11</u>
W2	<u>RSJ0643-12</u>
W3	<u>RSJ0643-13</u>
W4	<u>RSJ0643-14</u>
W5	<u>RSJ0643-15</u>
W6	<u>RSJ0643-16</u>
W7	<u>RSJ0643-17</u>
W8	<u>RSJ0643-18</u>
TRIP BLANK	<u>RSJ0643-19</u>

**APPENDIX 9**  
Phase II ESA



TECHNOLOGIES, INC.

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**PHASE II ENVIRONMENTAL  
SITE ASSESSMENT**

*For:*

**CIABATTONI PROPERTY**  
149 & 153 South Liberty Drive  
Stony Point, Rockland County, New York

*Prepared For:*

**THE SEMBLER COMPANY**  
5858 Central Avenue  
St. Petersburg, Florida 33707

*Prepared By:*

**A2L TECHNOLOGIES, INC.**  
10220 Harney Road NE  
Thonotosassa, Florida 33592  
(813) 248-8558  
[www.A2Ltechnologies.com](http://www.A2Ltechnologies.com)

April 27, 2006  
Project #: 050409



TECHNOLOGIES, INC.

10220 Harney Road NE  
Thonotosassa, FL 33592

PH (813) 248-8558  
FAX (813) 248-8656

April 27, 2006

Project # 050409

Mr. Robert J. Fargo  
The Sembler Company  
5858 Central Avenue  
St. Petersburg, Florida 33707

RE: **CIABATTONI PROPERTY**  
**149 & 153 South Liberty**  
**Stony Point, Rockland County, New York**

Dear Mr. Fargo:

A2L Technologies, Inc. is pleased to present you with this ***Phase II Environmental Site Assessment***. We would like to take this opportunity to thank you for selecting A2L Technologies, Inc. to assist you with this matter. This report has been prepared for the sole and exclusive use of The Sembler Company and its clients.

As always, should you have any further questions please feel free to contact us at your convenience.

Sincerely,

**A2L Technologies, Inc.**

Kent R. Ward ASP, CFEA, REPA  
Vice President  
Director of Environmental Services

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## **1.0 INTRODUCTION**

A2L Technologies, Inc. was authorized to proceed with a *Phase II Environmental Site Assessment* for the **CIABATTONI PROPERTY** located at 149 & 153 South Liberty Drive North in the Town of Stony Point, Rockland County, New York. This Phase II Assessment was performed in accordance with ASTM E1903-97, *Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*. The areas of concern were identified by A2L Technologies, Inc. in a *Phase I Environmental Site Assessment* (dated January 12, 2006) which identified the following historical recognized environmental conditions: 1.) historic presence of a gas station/garage with gasoline and waste oil underground storage tanks (USTs) and hydraulic lifts, 2.) unauthorized dumping behind gas station building.

## **2.0 SITE CONTAMINATION HISTORY**

The subject site has historically served as a gas station and garage since the 1950's. Documentation obtained from the EDR database report and Rockland County Department of Health indicates that the original tanks (installed in the 1950's) were removed in 1980 by Ira D. Conklin & Sons, Inc. (IDC) and replaced with three (3) 10,000 gallon gasoline UST's and two dispensers. In August 2003, IDC removed the three (3) 10,000 gallon gasoline UST's and one (1) 550 gallon waste oil UST. During the excavation process, it was established that the soil was contaminated and a New York State Department of Environmental Conservation (NYDEC) Spill Report Form was submitted on August 20, 2003. Approximately 600 tons of soil was removed from the tank excavation area and 150 tons of soil removed from the waste oil UST excavation. Laboratory results for the soil extracted upon excavation indicated contaminants above the NYSDEC TAGM

#4046 Recommended Soil Cleanup Objective level at the east wall (under South Liberty Drive) and bottom of the excavation. Upon inspection of the site, the Rockland County Department of Health representative requested the removal of the hydraulic lifts and dispensers on the site.

On November 1, 2004, the removal of three (3) in-ground hydraulic lifts and the dispenser island commenced. Approximately 1,780 tons of petroleum contaminated soil were removed from both excavations. Soil sample results indicated levels above the NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives along the east wall of the excavation only. The remaining laboratory results were below the applicable levels. Although groundwater was encountered during the excavation, no groundwater sampling was performed at the subject site. A letter from IDC to Majac Enterprises (UST Owners) on December 28, 2004 indicated the presence of contaminated soil along the south wall of the hydraulic lift excavation. All of the Spill Incidents recorded for the subject site were closed by the NYSDEC. Residual contamination reportedly remains along the east property boundary. The presence of groundwater contamination was not established during tank closure activities.

### **3.0 SCOPE OF SERVICES**

The purpose of the investigation was to determine the presence or absence of contamination caused by past activities on the subject property as presented in the ***Phase I Environmental Site Assessment*** (dated January 12, 2006) prepared by A2L Technologies, Inc.

In order to address these specific concerns, the Scope of Services for this investigation Included:

- ▶ Site inspection and field-determination of sample locations.
- ▶ Field screening of soil samples at 2' intervals using an Organic Vapor Analyzer (OVA) equipped with a Photo-Ionization Detector (PID).
- ▶ Installation of soil borings at a total of three (3) field-determined locations around the former UST tank pit, dispenser island and product lines, representative of potential on-site contamination (Refer to Appendix A for details and locations).
- ▶ Installation of three (3) temporary monitoring wells at the soil boring locations around the former UST tank pit, dispenser island and product lines. (Refer to Appendix A for details and locations).
- ▶ Collection of one (1) soil sample from the former UST tank pit and dispenser area (location of the highest OVA response), with analysis using EPA Method 8021B for Volatile Organic Compounds (STARS VOA and VOH) and EPA Method 6010 for RCRA Metals.
- ▶ Collection of three (3) ground water samples from each of the temporary wells in the area of the former UST's with analysis using EPA Method 8021B for Volatile Organic Compounds (STARS VOA and VOH) and EPA Method 6010 for 8 RCRA Metals (filtered and unfiltered).
- ▶ Installation of soil borings at one (1) field-determined location around the former in-ground hydraulic lifts located within the garage of the gas station building. (Refer to Appendix A for details and locations).
- ▶ Installation of one (1) temporary monitoring wells at the center of the former in-ground hydraulic lifts area within the garage of the gas station building. (Refer to

Appendix A for details and locations).

- ▶ Collection of one (1) soil sample from the former hydraulic lift area, with analysis using EPA Method 8021B for Volatile Organic Compounds (STARS VOA), EPA Method 8270C for Semi-Volatile Organic Compounds (STARS SVOC), EPA Method 6010 for 8 RCRA Metals (filtered and unfiltered), and EPA Method 8081 for PCB's.
- ▶ Collection of one (1) ground water sample from the temporary well in the area of the former hydraulic lift area with analysis using EPA Method 8021B for Volatile Organic Compounds (STARS VOA and VOH) and EPA Method 6010 for 8 RCRA Metals.
- ▶ Installation of soil borings at a total of three (3) field-determined locations at the south side (rear) of the former gas station building in the area of the recorded dumping of automotive fluids. The three (3) soil borings were installed along the rear wall of the gas station to approximately five (5) feet.
- ▶ Collection of one (1) soil sample from the rear of the building (location of the highest OVA response), with analysis using EPA Method 8021B for Volatile Organic Compounds (STARS VOA), EPA Method 8270C for Semi-Volatile Organic Compounds (STARS SVOC), and EPA Method 6010 for 8 RCRA Metals.
- ▶ Installation of soil borings at a total of two (2) field-determined locations at the west side of the former gas station building in the area of the former waste oil underground storage tank to approximately ten (10) feet below land surface.
- ▶ Collection of one (1) soil sample from the area of the waste oil tank (location of the highest OVA response), with analysis using EPA Method 8021B for Volatile Organic Compounds (STARS VOA and VOH), EPA Method 8270C for Semi-Volatile Organic

Compounds (STARS SVOC), and EPA Method 6010 for 8 RCRA Metals.

- Preparation of report of activities and findings.

#### **4.0 DESCRIPTION OF ASSESSMENT ACTIVITIES**

On April 12, 2006, the site activities were performed by HRP Associates, Inc. (HRP) and Aztech Environmental Services, Inc. (Aztech). The soil and groundwater testing was being performed for the client in order to establish the presence of on-site contamination prior to future development. A description of the on-site activities and sampling follows (Refer to Appendix A for specific site details and information):

##### **4.1 Soil Sampling**

Soil borings were installed at a total of nine (9) field determined locations by Aztech using a truck-mounted combination direct push and hollow stem auger drill rig. The soil borings were advanced to depths ranging from 1 to 30 feet below land surface (bls). The soil samples were collected continuously in four foot intervals by HRP using a 1¼-inch inner diameter stainless steel Macrocore sampler. Due to access restrictions, soil borings were installed at the rear of the gas station building with a stainless steel hand auger and shovel. Soil boring logs describing the geologic descriptions and comments were maintained in the field during the boring activities.

The soil from each 2' increment was screened with an Organic Vapor Analyzer (OVA) equipped with a Photo-Ionization Detector (PID). Physical evidence of contamination (i.e. staining, odors, elevated PID measurements) was observed at five soil boring locations. Soil samples were extracted by HRP from the boring at each location indicating the highest

response. After collection, each soil sample was placed into laboratory-provided glass sampling containers. The sample containers were labeled and placed into a cooler, preserved on wet ice at 4<sup>0</sup> C, and delivered with a properly completed Chain-of-Custody to *Hudson Environmental Services, Inc.* for analysis using the specific methods previously listed. Laboratory results and Soil Boring logs listing the lithology, sampling interval, and specific analysis performed for each sample location are present in Appendix A.

#### **4.2 Groundwater Sampling**

Temporary monitoring wells were installed by Aztech at four (4) field determined soil boring locations using a truck-mounted combination direct push and hollow stem auger drill rig. The temporary wells were installed in the area of the former UST excavation and dispensers, as well as the former in-ground hydraulic lifts. The wells were installed to a depth of 20' - 29' bls, with groundwater encountered at the site between approximately 17' - 25' bls. The wells were constructed of 1" diameter PVC with 0.01" slotted screen in the lower ten (10) feet of the well. The annular space around the slotted screen, and two feet above was packed with 20/30 silica sand, followed by a fine sand (30/65) pack of 1' thick.

The temporary wells were purged by HRP prior to sample collection to ensure the acquisition of a sample representative of the local aquifer. The groundwater sample was collected at the end of the well volume purged and stabilization parameters were measured.

A sample was then retrieved with a pre-cleaned dedicated Teflon bailer and transferred to laboratory supplied containers (samples for volatiles analysis were collected first) in accordance with the U.S. Environmental Protection Agency 40 CFR 136, Table II. The containers were labeled and placed into a cooler, preserved at 4<sup>0</sup> C, and delivered with a

properly completed Chain-of-Custody to *Hudson Environmental Services, Inc.* for analysis  
(Refer to Appendix A for site specific information).

## **5.0 FINDINGS AND RESULTS**

### **5.1 Soil Sample Analysis**

The laboratory analysis yielded results below detectable limits, except as follows:

Location/ Constituent	Result	Units	NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives
<b>SB-02: Former Waste Oil Tank Location (Sampled 4' - 6')</b>			
Total Xylenes	0.089 B	mg/kg	1.2
1,3,5 - Trimethylbenzene	0.240 B	mg/kg	NE
1,2,4 - Trimethylbenzene	0.072	mg/kg	NE
p-Isopropyltoluene	0.057	mg/kg	NE
Total VOC's	0.458	mg/kg	10
Barium	37	mg/kg	300
Chromium	25	mg/kg	10
Lead	43	mg/kg	SB
Silver	2.2	mg/kg	SB
<b>SB-04: Former Dispenser Island Area (Sampled 17' - 19')</b>			
MTBE	0.016	mg/kg	NE
Benzene	0.63	mg/kg	0.060
Toluene	3.8 B	mg/kg	1.5
Ethylbenzene	1.9	mg/kg	5.5

Location/ Constituent	Result	Units	NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives
Total Xylenes	5.9	mg/kg	1.2
Isopropylbenzene	0.51	mg/kg	NE
n-Propylbenzene	0.93	mg/kg	NE
1,3,5 - Trimethylbenzene	1.6	mg/kg	NE
1,2,4 - Trimethylbenzene	2.8 B	mg/kg	NE
Sec-Butylbenzene	0.027	mg/kg	NE
p-Isopropyltoluene	0.160	mg/kg	NE
Napthalene	0.41	mg/kg	NE
Total VOC's	18.68	mg/kg	10
Barium	55	mg/kg	300
Chromium	34	mg/kg	10
Lead	6.6	mg/kg	SB
Silver	1.1	mg/kg	SB
<b>SB-06: Former In-Ground Hydraulic Lift Area (Sampled 6' - 8')</b>			
n-Propylbenzene	0.027 B	mg/kg	NE
1,3,5 - Trimethylbenzene	0.022 B	mg/kg	NE
1,2,4 - Trimethylbenzene	0.051 B	mg/kg	NE
p-Isopropyltoluene	0.019	mg/kg	NE
Total VOC's	0.119	mg/kg	10
Barium	64	mg/kg	300
Chromium	38	mg/kg	10
Lead	7.9	mg/kg	SB
Silver	0.54	mg/kg	SB



Location/ Constituent	Result	Units	NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives
<b>SB-08: Rear of Former Gas Station Building (Sampled 0' - 2')</b>			
Barium	68	mg/kg	300
Chromium	54	mg/kg	10
Lead	290	mg/kg	SB
Silver	<0.58	mg/kg	SB

\* Soil samples that exceed NYSDEC TAGM values are bolded  
NYSDEC = New York State Department of Environmental Conservation  
TAGM = Technical and Administrative Guidance Memorandum # 4046  
NE = Not Established  
SB = Site Background  
B = indicates estimated concentration

Benzene, Toluene, Total Xylene, and Total VOC's were found to be above the applicable regulatory limits in the area of the former dispensers. The chromium concentrations exceeded applicable standards at all of the sampled locations. No other analytes were detected in the samples collected. (Refer to Appendix A for Analytical Results).

## 5.2 Ground Water Assessment

The laboratory analysis yielded results below detectable limits, except as follows:

Location/ Constituent	Result	Units	TOGS Value
<b>SB-03: Former Underground Storage Tank Area</b>			
Benzene	1.4	µg/L	0.7
Toluene	0.94 B	µg/L	5
Ethylbenzene	10	µg/L	5
Xylenes - Total	20 B	µg/L	5

Location/ Constituent	Result	Units	TOGS Value
Isopropylbenzene	4.9	µg/L	5
n-Propylbenzene	6.4	µg/L	5
1,3,5-Trimethylbenzene	11	µg/L	5
1,2,4-Trimethylbenzene	23 B	µg/L	5
sec-Butylbenzene	1	µg/L	5
p-Isopropyltoluene	0.7	µg/L	5
Napthalene	0.6 B	µg/L	10
Total VOC's	79.94	µg/L	NE
Barium (Total)	26,000	µg/L	1000
Barium (dissolved)	140	µg/L	1000
Chromium (Total)	3,800	µg/L	50
Chromium (dissolved)	18	µg/L	50
Lead (Total)	650	µg/L	50
Lead (dissolved)	<42	µg/L	50
Selenium (Total)	<57	µg/L	10
Selenium (dissolved)	<57	µg/L	10
Silver (Total)	90	µg/L	50
Silver (dissolved)	<10	µg/L	50
<b>SB-04: Former Dispenser Island Area</b>			
Benzene	2,800	µg/L	0.7
Toluene	2,600 B	µg/L	5
Ethylbenzene	2,300	µg/L	5
Xylenes - Total	5,700 B	µg/L	5
Isopropylbenzene	150	µg/L	5
n-Propylbenzene	260	µg/L	5

Location/ Constituent	Result	Units	TOGS Value
1,3,5-Trimethylbenzene	400	µg/L	5
Tert-Butylbenzene	<25	µg/L	5
1,2,4-Trimethylbenzene	1,100 B	µg/L	5
sec-Butylbenzene	<25	µg/L	5
p-Isopropyltoluene	<25	µg/L	5
n-Butylbenzene	<25	µg/L	5
Napthalene	280 B	µg/L	10
MTBE*	910	µg/L	10
Total VOC's	16,500	µg/L	NE
Barium (Total)	16,000	µg/L	1000
Barium (dissolved)	200	µg/L	1000
Chromium (Total)	3,200	µg/L	50
Chromium (dissolved)	10	µg/L	50
Lead (Total)	600	µg/L	50
Lead (dissolved)	<42	µg/L	50
Selenium (Total)	<57	µg/L	10
Selenium (dissolved)	<57	µg/L	10
Silver (Total)	60	µg/L	50
Silver (dissolved)	<10	µg/L	50
<b>SB-05: Northwest of Former UST's and Dispensers</b>			
Benzene	3.1	µg/L	0.7
Toluene	16 B	µg/L	5
Ethylbenzene	63	µg/L	5
Xylenes - Total	56	µg/L	5
Isopropylbenzene	32	µg/L	5

Location/ Constituent	Result	Units	TOGS Value
n-Propylbenzene	76	µg/L	5
1,3,5-Trimethylbenzene	27	µg/L	5
1,2,4-Trimethylbenzene	120 B	µg/L	5
sec-Butylbenzene	11	µg/L	5
p-Isopropyltoluene	1.6	µg/L	5
Napthalene	48 B	µg/L	10
MTBE*	1.6	µg/L	10
Total VOC's	453.7	µg/L	NE
Barium (Total)	13,000	µg/L	1000
Barium (dissolved)	100	µg/L	1000
Chromium (Total)	3,700	µg/L	50
Chromium (dissolved)	10	µg/L	50
Lead (Total)	840	µg/L	50
Lead (dissolved)	<42	µg/L	50
Selenium (Total)	<57	µg/L	10
Selenium (dissolved)	<57	µg/L	10
Silver (Total)	60	µg/L	50
Silver (dissolved)	<10	µg/L	50
<b>SB-06: Former In-Ground Hydraulic Lift Area</b>			
Benzene	1.2	µg/L	0.7
Toluene	0.91 B	µg/L	5
Ethylbenzene	1.0	µg/L	5
Xylenes - Total	2.3	µg/L	5
n-Propylbenzene	1.0	µg/L	5
1,3,5-Trimethylbenzene	1.3	µg/L	5

Location/ Constituent	Result	Units	TOGS Value
1,2,4-Trimethylbenzene	3.7 B	µg/L	5
Napthalene	2.1 B	µg/L	10
Total VOC's	13.51	µg/L	NE
Barium (Total)	<b>6,400</b>	µg/L	1,000
Barium (dissolved)	80	µg/L	1,000
Chromium (Total)	<b>3,400</b>	µg/L	50
Chromium (dissolved)	<7	µg/L	50
Lead (Total)	<b>340</b>	µg/L	50
Lead (dissolved)	<42	µg/L	50
Selenium (Total)	<b>150</b>	µg/L	10
Selenium (dissolved)	<b>&lt;57</b>	µg/L	10
Silver (Total)	<b>70</b>	µg/L	50
Silver (dissolved)	<b>&lt;10</b>	µg/L	50

TOGS = NYSDEC Technical and Operational Guidance Series (1.1.1)

Ground water samples that exceed NYSDEC GWQS are bolded

B indicates estimated concentration

NE indicates no standards established

Elevated levels of petroleum constituents were found to be present in all of the ground water samples extracted, which exceed the applicable NYSDEC groundwater quality standards. The sample results indicated that the area of the former dispenser has experienced the greatest impact. (Refer to Appendix A for site specific documentation).

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

### **6.1 Conclusions**

Field assessment activities were performed for this Phase II Environmental Site Assessment (ESA) on April 12, 2006 by HRP Associates, Inc. and Aztech Environmental Services, Inc. (driller). The Phase II ESA was performed of the Ciabattoni Property due to the potential presence of contamination from the historic gas station (UST's, dispensers, waste oil tank, and in-ground hydraulic lifts). Investigative techniques utilized during the assessment are summarized below:

- ▶ Visual examination of soil brought to the surface during borehole installation to determine the subsurface lithology.
- ▶ Analysis with an Organic Vapor Analyzer (OVA) equipped with a Photo Ionization Detector (PID) to determine the quality of the unsaturated soils at the boring locations.
- ▶ Soil and groundwater sampling in the former UST and dispenser areas at the north side of the gas station building.
- ▶ Soil and groundwater sampling in the area of the former in-ground hydraulic lifts within the gas station building.
- ▶ Soil sampling in the area of the former waste oil UST at the west side of the building.
- ▶ Soil sampling at the rear of the gas station building in the area of the alleged illegal dumping.

A summary of the assessment findings is as follows:

- ▶ The water table was encountered at approximately 17' - 25' bls. The groundwater level is consistent with that documented during the removal of the tanks.

- ▶ Natural geologic units encountered at the site below the gravelly back fill material consisted of reddish brown and grayish brown silty sand and gravel underlain by a well sorted medium sand. Bedrock was not encountered during the investigation.
- ▶ Physical evidence of contamination (i.e. staining, odors, PID measurements) was observed from the soil samples extracted from the waste oil UST area, UST and Dispenser area, and in-ground hydraulic lift.
- ▶ No significant levels of VOC's were established within the sampled soil in the area of the former waste oil UST.
- ▶ No significant levels of VOC's were established within the sampled soil in the area of the alleged dumping at the rear of the gas station building.
- ▶ No significant levels of VOC's were established within the sampled soil in the area of the former in-ground hydraulic lifts. Additionally, Benzene was detected slightly above TOGS value in the groundwater sample, with Selenium being the only dissolved metal exceeding the regulatory limit.
- ▶ Based on the results of sampling, groundwater at the former dispenser island and UST area have been impacted by numerous petroleum constituents above NYSDEC groundwater quality standards. The extent of the impact has not been delineated, and the potential exists that the groundwater impact may extend off-site.
- ▶ Metals concentrations exceeding the regulatory limits were established within the soil samples (chromium) and groundwater samples (totals - barium, chromium, lead, selenium, silver and dissolved - selenium). The source of the elevated metals is unknown.

## 6.2 Recommendations

A soil and groundwater assessment has been performed at the **Ciabattoni Property** located at 149 & 153 South Liberty Drive in the Town of Stony Point, Rockland County New York. The sampling was performed due to the historic operation of a gas station and garage at this location. Based upon the findings of the assessment activities, the following recommendations are provided:

- Evidence of a petroleum release was identified during the performance of the assessment activities. It is recommended that the NYSDEC be contacted to report the contamination and obtain a new spill number for the facility. The Rockland County Department of Health has closed all of the previously filed Spill numbers for the subject site. Additional assessment and remedial actions may be required by NYSDEC upon notification.
- Further investigation (soil borings and permanent wells) is recommended in the area of the former UST excavation and dispenser island to determine the degree and extent of soil and groundwater contamination and the presence of non-aqueous phase liquid (NAPL). Additionally, the properly installed and developed permanent monitoring wells can be sampled for metals to establish if the elevated concentrations are representative of the on-site groundwater conditions.
- An exposure assessment should be conducted in order to identify potential sensitive receptors in the area of the subject site.
- During site development for the new structures, there may be a potential for VOC's exposure identified in the soil and groundwater requiring special engineering controls (ie: soil vapor remedial system). Petroleum impacted soil that is disturbed during site development activities would require proper removal and disposal.

Based upon the results of this assessment, the subject site has been adversely impacted by the historic property usage as a gas station and garage. Further assessment and potential remediation is recommended for the subject property.



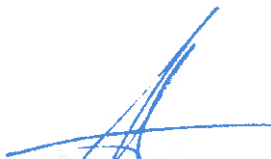
## **6.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONAL(S)**

**Prepared by:**



Kent R. Ward, ASP, CFEA, REPA  
Vice President  
Director of Environmental Services  
Registered Environmental Property Assessor (NREP)  
Certified Florida Environmental Assessor (FEAA)

**Reviewed by:**



Larry G. Schmaltz, P.E.  
President  
Registered Environmental Property Assessor (NREP)  
Certified Florida Environmental Assessor (FEAA)  
Certified Remediation Specialist (EAA)

## **APPENDIX A**

### **HRP Associates, Inc. Report**

# HRP Associates, Inc.

*Creating the Right Solutions Together*

April 26, 2006

Mr. Larry Schmaltz, P.E.  
President/C.E.O.  
A2L Technologies, Inc.  
10220 Harney Road NE  
Thonotosassa, Florida 33592

**RE: PHASE II ENVIRONMENTAL SITE ASSESSMENT AT THE  
CIABATTONI PROPERTY, STONY POINT, NEW YORK**

Dear Mr. Schmaltz:

In April 2006, HRP Associates, Inc. (HRP) was retained to complete a Phase II Environmental Site Assessment (Phase II ESA) at the Ciabattoni Property at 153 South Liberty Drive in the City of Stony Point, New York (the site). The Phase II ESA included the installation of nine (9) soil borings and the collection and analysis of select soil and groundwater samples. The remainder of this letter discusses the project background, field activities, findings/conclusions, as well as HRP's recommendations.

## **BACKGROUND**

In January 2006, A2L Technologies completed a Phase I ESA of the Ciabattoni property in Stony Point, New York. A2L reported that the site was historically used as a gasoline filling station, utilizing several underground storage tanks (USTs) and as an automobile service facility. According to the Phase I ESA, petroleum contaminated soil was encountered at the property during removal of USTs and pumping equipment. Approximately 1,780 tons of soil was removed from the site in the former pump island and UST area. The excavation extended to approximately 18 feet below grade. Groundwater samples were not collected as part of previous investigations or remedial activities.

In addition, two former in-ground hydraulic lifts were reportedly removed from the service bays of the site building. To evaluate environmental concerns related to historical on-site operations, A2L prepared a Phase II ESA proposal bid request.

HRP completed this Phase II ESA to evaluate potential impacts to the site soils and groundwater from historical activities.

## **FIELD ACTIVITIES/FINDINGS**

Prior to any conducting intrusive subsurface activities, HRP requested that the Underground Facilities Protection Organization complete a utility mark out of the site. Prior to the initiation of activities involving subsurface explorations at this site, HRP prepared a project specific health and safety plan, in accordance with 29 CFR 1910.120.

### **CONNECTICUT**

197 Scott Swamp Road  
Farmington, CT 06032  
800-246-9021  
860-674-9570  
FAX 860-674-9624

### **NEW YORK**

100 Saratoga Village Blvd.  
Suite 27  
Malta, NY 12020  
888-823-6427  
518-899-3011  
FAX 518-899-8129

### **PENNSYLVANIA**

4811 Jonestown Road  
Suite 235  
Harrisburg, PA 17109  
866-232-9824  
717-920-1360  
FAX 717-920-1353

### **SOUTH CAROLINA**

7001 Pelham Road  
Suite J  
Greenville, SC 29615  
800-752-3922  
864-289-0311  
FAX 864-281-9846

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

- Due Diligence
- Site Investigations
- Brownfields Redevelopment
- Remedial/Corrective Action
- CMI Engineering
- Land Surveying
- Site Planning
- Environmental Permitting
- Hazardous Waste Management
- Air Quality & Pollution Control
- Water & Wastewater Management
- Health & Safety
- Environmental Management System

### **Subsurface Investigation**

To evaluate the condition of site soils and groundwater, HRP and Aztech Environmental Services mobilized to the site on April 12, 2006 to install a total of nine (9) soil borings (referred to as SB-01 through SB-09), and collect representative soil and groundwater samples using a truck-mounted combination direct push and hollow stem auger drill rig. Soil borings were located based on the historical waste oil tank, USTs, pump-island, and in-ground lift locations, and alleged dumping area. The soil boring locations are shown on Figure 2 and are summarized below.

Soil Boring I.D.	Location
SB-01	Former waste oil tank location
SB-02	Former waste oil tank location
SB-03	Former UST area
SB-04	Former pump-island area
SB-05	Northwest of former UST and pump-island area
SB-06	Former in-ground lift area
SB-07	Rear of site building (alleged dumping area)
SB-08	Rear of site building (alleged dumping area)
SB-09	Rear of site building (alleged dumping area)

### **Soil Characterization**

During the subsurface investigation, soil borings (SB-01 through SB-06) were advanced to depths ranging from 0 to 30 feet below ground surface (bgs). Soil samples were collected continuously in four-foot intervals using a 1 3/4-inch inner diameter (I.D.) stainless steel, four-foot long Macrocore sampler. Each four-foot soil sample was collected in a new, acetate liner to ensure the sample's integrity, and then split into two (2), two-foot segments.

Soil boring locations SB-07 through SB-09 were installed using a hand shovel due to site constraints. The shovel was decontaminated between locations.

Soil boring logs describing the geologic descriptions and comments were maintained in the field by an HRP geologist, and are included in Attachment #1. The collected soil samples were reviewed in the field for physical evidence of contamination (i.e. odor, staining, elevated meter readings), placed in a labeled jar, and stored in a cooler for preservation. Each boring was backfilled with bentonite chips upon completion of soil and groundwater sampling.

Based upon HRP's field review of the collected soil samples, HRP selected the following four (4) soil samples for laboratory analysis:

Soil Boring ID	Sample Depth	Analyses
SB-02	4-6'	STARS VOCs (USEPA Method 8021B), STARS SVOCs (USEPA Method 8270C, 8 RCRA Metals (mass analysis)
SB-04	17-19'	STARS VOCs (USEPA Method 8021B), 8 RCRA Metals (mass analysis)
SB-06	6-8'	STARS VOCs (USEPA Method 8021B), 8 RCRA Metals (mass analysis), STARS SVOCs (USEPA Method 8270C, PCBs (USEPA Method 8082)
SB-08	0-2'	STARS VOCs (USEPA Method 8021B), STARS SVOCs (USEPA Method 8270C, 8 RCRA Metals (mass analysis)
STARS: New York State Department of Environmental Conservation Spill Technology and Remediation Series VOC: Volatile Organic Compounds SVOC: Semi Volatile Organic Compounds USEPA: United States Environmental Protection Agency 8 RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)		

#### **Groundwater Characterization**

To screen groundwater quality beneath the subject site, HRP installed temporary wells in four (4) soil borings (SB-03, SB-04, SB-05, and SB-06) using PVC well screens and risers and collected grab groundwater samples using clean polyethylene bailers. Groundwater was encountered at the site between approximately seventeen and twenty-five feet bgs. Samples were collected into appropriate containers and stored on ice in a cooler.

The four (4) groundwater samples were submitted for analysis of complete VOCs via EPA Method 8021B; and total and dissolved metals. The samples collected for dissolved metals were filtered in the field with 0.45 micron inline filters. NYSDEC guidance dictates that groundwater samples analyzed for metals contain less than 50 nephelometric turbidity units (NTU). For the purpose of this investigation using temporary monitoring well points, turbidity values of less than 50 NTUs were not attainable. For this reason HRP collected samples for both total and dissolved metals for comparison.

Soil and groundwater samples were selected for submission based on the probable depth of the former USTs, hydraulic lifts, and physical evidence of contamination. Samples were selected to evaluate soils in the vicinity of and presumably downgradient from the areas of concern (former waste oil tank, alleged dumping area, former UST area, and former pump island area). In addition, groundwater samples were submitted from different borings to maximize the data coverage.

#### **Subsurface Investigation Findings**

##### Lithology

During the subsurface investigation, HRP noted that below the gravelly backfill material, (up to 17 feet) site's geology generally consisted of reddish brown and grayish brown silty sand and gravel underlain by a well sorted medium sand. Bedrock was not encountered during the investigation.

Groundwater was encountered at depths ranging from approximately 17 feet to 25 feet below ground surface (bgs) at the site. The direction of groundwater flow at the site was not evaluated as part of this investigation. However, based on local topography, shallow groundwater flow at the site is expected to flow in a generally easterly direction towards the Hudson River approximately ¾ mile east of the site.

#### Observations

As shown in the soil borings logs, during the field activities, physical evidence of contamination (i.e. staining, odors, elevated PID measurements) were noted associated with soil samples from borings SB-02, SB-03, SB-04, SB-05, and SB-06. No obvious physical evidence of contamination was observed on soil samples from borings SB-01, SB-07, SB-08, or SB-09.

Petroleum odors were observed on groundwater at borings SB-03, SB-04, and SB-05. No physical evidence of contamination was observed on groundwater at boring SB-06. Groundwater was not encountered at borings SB-01, SB-02, SB-7, SB-08, or SB-09.

#### Analytical results

As previously stated, a total of four (4) soil samples (SB-02, 4-6'; SB-04, 17-19'; SB-06, 6-8'; and SB-8, 0-2') were submitted to a state-certified laboratory for analysis. HRP compared the soil sample results to the NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) #4046-Determination of Recommended Soil Cleanup Objectives (RSCOs). The analytical results for the four soil samples are summarized in Table 1 and discussed below. The laboratory report forms can be reviewed in Attachment #2.

HRP submitted four (4) groundwater samples (SB-03, SB-04, SB-05, and SB-06) for analysis of VOCs via EPA Method 8021B; and total and dissolved metals via mass analysis. HRP compared the groundwater sample results to the NYSDEC's Technical and Operational Guidance Series (TOGS) 1.1.1. The analytical results for the four groundwater samples are summarized in Table 2 and discussed below. The laboratory report forms can be reviewed in Attachment #2.

A summary of soil and groundwater analytical results by area of concern is provided below:

#### *Former Waste Oil Tanks Area*

One soil sample (SB-02, 4-6') was submitted for analysis from the former waste oil tank area. No STARS SVOCs were detected in this sample. Low levels of several STARS VOCs and metals were detected in this soil sample. Chromium (25 mg/kg) was detected above the RSCO value of 10 mg/kg but within Eastern USA background concentrations of 15 to 40 mg/kg. Groundwater samples were not analyzed from this area.

#### *Former In-ground Lift Area*

One soil sample (SB-06, 6-8') was submitted for analysis from the former in-ground lift area. No STARS SVOCs, STARS VOCs or PCBs were detected in this sample. Low levels of metals were detected in this sample. Chromium (25 mg/kg) was detected above the RSCO value of 10 mg/kg but within Eastern USA background concentrations of 15 to 40 mg/kg.

One groundwater sample (SB-06) was analyzed from the former in-ground lift area area. Low levels of STARS VOCs were detected, however, only benzene (1.2 ug/l) was detected above TOGS value of 0.7 ug/l. Elevated total metals (barium (6,400ug/l), chromium (3,400), selenium (150 ug/l), and silver (70 ug/l)) were also detected in groundwater sample SB-06. All levels of dissolved metals, except silver were below TOGS values or non-detectable.

#### *Area of Alleged Dumping*

One soil sample (SB-08, 0-2") was submitted for analysis from the area of alleged dumping. No STARS SVOCs or STARS VOCs were detected in this sample. Low levels of metals were detected in this sample. Chromium (54 mg/kg) was detected above the RSCO value of 10 mg/kg and Eastern USA background concentrations of 15 to 40 mg/kg. Groundwater samples were not analyzed from this area.

#### *Former UST and Pump Island Area*

One soil sample (SB-04, 17-19") was submitted for analysis from the former UST and pump island area. No STARS SVOCs were detected in this sample. STARS VOCs (benzene 0.63 mg/kg, toluene 3.8 mg/kg (estimated), total xylenes 5.9 mg/kg, and total VOCs 18.68 mg/kg) were detected above RSCOs within this soil sample. Low levels of metals were detected in this sample. Chromium (35 mg/kg) was detected above the RSCO value of 10 mg/kg but within Eastern USA background concentrations of 15 to 40 mg/kg.

Three groundwater samples (SB-03, SB-04, and SB-05) were analyzed from the former UST and pump island area. STARS VOCs (Total BTEX-32.34 ug/l; Total VOCs- 79.94 ug/l) were detected above TOGS values in groundwater sample SB-03. STARS VOCs (Total BTEX-13,400 ug/l; Total VOCs- 16,500 ug/l) were detected above TOGS values in groundwater sample SB-04. STARS VOCs (Total BTEX-138.1 ug/l; Total VOCs- 453.7 ug/l) were detected above TOGS values in groundwater sample SB-05. In addition, due to the elevated STARS VOCs concentrations detected in groundwater sample SB-04, the laboratory detection limits were above TOGS values for the remaining compounds that were not detected.

Total metals were also detected in groundwater samples SB-03, SB-04, and SB-05. Elevated total metals (barium, chromium, selenium, and silver) were also detected in groundwater samples SB-03, SB-04, and SB-05. The highest levels were noted in sample SB-04 (barium (26,000 ug/l), chromium (3,800 ug/l), lead (650 ug/l), and silver (90 ug/l)). All levels of dissolved metals, except silver were below TOGS values or non-detectable.

#### **CONCLUSIONS**

Based upon the data collected to date, HRP has the following conclusions:

- In April 2006, HRP completed a Phase II ESA at the Ciabattini Property located at 153 South Liberty Drive in Stony Point, New York to evaluate the site's former uses and to investigate the status of underlying soil and groundwater quality in the noted areas where contamination was historically documented. The Phase II ESA included the installation of nine (9) soil borings, and the collection and analysis of select soil samples and groundwater samples.

- During the field activities, physical evidence of contamination (i.e. staining, odors, elevated PID measurements) was observed on soil samples from borings SB-02, SB-03, SB-04, SB-05, and SB-06. No physical evidence of contamination was observed on soil samples from borings SB-01, SB-07, SB-08, or SB-09.
- No significant levels of STARS VOCs or semi-VOCs were detected in soil sample SB-02, 4-6', collected from the former waste oil tank area. As such, potential impacts related to the former waste oil tanks are not expected to be significant.
- No STARS SVOCs, PCBs, and only low levels of STARS VOCs were detected in soil sample SB-06, 6-8', collected from the former in-ground lift area. In addition, benzene was detected marginally above TOGS values in groundwater sample SB-06. No dissolved metals except silver were detected above TOGS values in groundwater sample SB-06. As such, potential impacts related to the former in-ground lifts are not expected to be significant.
- Based on HRP's review of the laboratory results, no detectable STARS VOCs or semi-VOCs and low levels of chromium were noted within soil samples SB-08, 0-2', collected from the area of alleged dumping. As such, potential impacts from alleged dumping are not expected to be significant.
- Based on our findings, groundwater (SB-03, SB-04, and SB-05) at the former pump island and former UST area of the site has been impacted by BTEX (presumably from historical fueling operations) above NYSDEC groundwater quality standards. Petroleum odors were observed on groundwater at borings SB-03, SB-04, and SB-05. The extent of impact has not been delineated, and the potential exists that the groundwater impact may extend off-site based on the data from groundwater sample collected from location SB-04. In addition, elevated total and dissolved metals were detected in groundwater samples collected during the investigation.
- The source of the elevated metals concentrations is currently unknown.

## **RECOMMENDATIONS**

Based on our findings to date, HRP offers the following recommendations:

- Evidence of a petroleum release(s) was identified as a result of our investigation. HRP recommends that the NYSDEC be contacted to report a new spill number. A historic spill file associated with the on-site release has reportedly been closed. However, due to the acquisition of groundwater sample data, it is HRP's opinion that the site should be further investigated and remediated.
- Further investigation (soil borings/permanent monitoring wells) is warranted in the vicinity of the former USTs and pump island to evaluate the degree and extent of soil and groundwater contamination and the potential presence of non-aqueous phase liquid (NAPL).
- The collection and analysis of additional groundwater samples from permanent monitoring wells that have been properly installed and developed is warranted to evaluate if elevated metals concentrations are representative of on-site groundwater conditions.



Mr. Larry Schmitz, P.E.  
Page 7  
April 26, 2006

- An exposure assessment should be conducted in order to identify potential receptors, such as private/residential drinking water wells.
- If the on-site buildings or new buildings are to be used, a soil gas survey is warranted to assess potential exposure to the VOCs identified in the soil and groundwater. If the site is to be redeveloped and soil vapor is determined to be an issue, the landowner may wish to consider building designs that incorporate passive and/or active soil vapor remedial systems. Any site activities that involve disturbing site soils should consider that potential impacted petroleum contaminated soils and/or groundwater may be encountered and may require removal and off-site disposal.

It should be noted that additional remedial actions may be required by the NYSDEC (eg. In-situ treatment such as ORC® injection or dual phase positive displacement groundwater recovery).

We appreciate the opportunity to provide environmental consulting services for A2L Technologies. If you have any questions about this letter-report, please do not hesitate to contact HRP Associates, Inc. at (518) 899-3011.

Sincerely,  
HRP ASSOCIATES, INC.

  
Eric Lovenduski  
Senior Project Geologist

  
Jeffrey R. Sotak, PE, CSP, CIH  
Senior Project Manager

TABLE 1 - Summary of Soil Sample Results

Clabattoni Property  
153 South Liberty Drive  
Stony Point, New York  
April 2006

	Soil Sample I.D.				
Parameter	SB-02, 4-6'	SB-04, 17-19'	SB-06, 6-8'	SB-08, 0-2'	NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives
MTBE	<0.014	0.016	<0.014	<0.015	NE
Benzene	<0.014	<b>0.63</b>	<0.014	<0.015	0.060
Toluene	<0.014 B	<b>3.8 B</b>	<0.014 B	<0.015	1.5
Ethylbenzene	<0.014	1.9	<0.014	<0.015	5.5
Total Xylenes	0.089 B	<b>5.9</b>	<0.014 B	<0.015	1.2
Isopropylbenzene	<0.014	0.51	<0.014	<0.015	NE
n-Propylbenzene	<0.014	0.93	0.027B	<0.015	NE
1,3,5-Trimethylbenzene	0.240 B	1.6	0.022 B	<0.015	NE
1,2,4-Trimethylbenzene	0.072	2.8 B	0.051 B	<0.015	NE
Sec-Butylbenzene	<0.014	0.027	<0.014	<0.015	NE
n-Butylbenzene	<0.014	<0.014	<0.014	<0.015	NE
p-Isopropyltoluene	0.057	0.160	0.019	<0.015	NE
Napthalene	<0.014B	0.41	<0.014	<0.015 B	NE
Total VOCs	0.458	<b>18.68</b>	0.119	<0.015	10
Barium	37	55	64	68	300
Chromium	<b>25</b>	<b>34</b>	<b>38</b>	<b>54</b>	10
Lead	43	6.6	7.9	290	SB
Silver	2.2	1.1	0.54	<0.58	SB

All values reported as ppm (mg/kg)

Soil samples that exceeded NYSDEC TAGM values are bolded and shaded

No STARS semi volatile organics, or PCBs were detected.

NE=None Established

SB=Site Background

B Indicates estimated concentration

**TABLE 2**  
**Summary of Groundwater Sample Results**  
 Ciabattoni Property  
 153 South Liberty Drive  
 Stony Point, New York  
 April 2006

Parameter	Groundwater Sample I.D.				TOGS Values
	SB-03	SB-04	SB-05	SB-06	
Benzene	<b>1.4</b>	<b>2,800</b>	<b>3.1</b>	<b>1.2</b>	0.7
Toluene	0.94B	<b>2,800B</b>	<b>16B</b>	0.91B	5
Ethylbenzene	<b>10</b>	<b>2,300</b>	<b>63</b>	1.0	5
Xylenes-total	<b>20B</b>	<b>5,700B</b>	<b>56</b>	2.3	5
Isopropylbenzene	4.9	<b>150</b>	<b>32</b>	<0.5	5
n-Propylbenzene	<b>6.4</b>	<b>260</b>	<b>76</b>	1.0	5
1,3,5-Trimethylbenzene	<b>11</b>	<b>400</b>	<b>27</b>	1.3	5
Tert-Butylbenzene	<0.5	<b>&lt;25</b>	<0.5	<0.5	5
1,2,4-Trimethylbenzene	<b>23B</b>	<b>1,100B</b>	<b>120B</b>	3.7B	5
sec-Butylbenzene	1.0	<b>&lt;25</b>	<b>11</b>	<0.5	5
p-Isopropyltoluene	0.70	<b>&lt;25</b>	1.6	<0.5	5
n-Butylbenzene	<0.5	<b>&lt;25</b>	<0.5	<0.5	5
Napthalene	0.6B	<b>280B</b>	<b>48B</b>	2.1B	10
MTBE*	<0.5	<b>910</b>	1.6	<0.5	10
Total VOCs	79.94	16,500	453.7	13.51	NE
Barium (total)	<b>26,000</b>	<b>16,000</b>	<b>13,000</b>	<b>6,400</b>	1,000
Barium (dissolved)	140	200	100	80	1,000
Chromium (total)	<b>3,800</b>	<b>3,200</b>	<b>3,700</b>	<b>3,400</b>	50
Chromium (dissolved)	18	10	10	<7	50
Lead (total)	<b>850</b>	<b>800</b>	<b>840</b>	<b>340</b>	50
Lead (dissolved)	<42	<42	<42	<42	50
Seienium (total)	<b>&lt;57</b>	<b>&lt;57</b>	<b>&lt;57</b>	<b>150</b>	10
Selenium (dissolved)	<b>&lt;57</b>	<b>&lt;57</b>	<b>&lt;57</b>	<b>&lt;57</b>	10
Silver (total)	<b>90</b>	<b>60</b>	<b>60</b>	<b>70</b>	50
Silver (dissolved)	<10	<10	<10	<10	50

**Notes:**

TOGS=NYSDEC Technical and Operational Guidance Series (1.1.1)

All results in µg/l.

Ground water samples that exceeded NYSDEC GWQS are bolded and shaded.

B Indicates estimated concentration

NE indicates no standards established

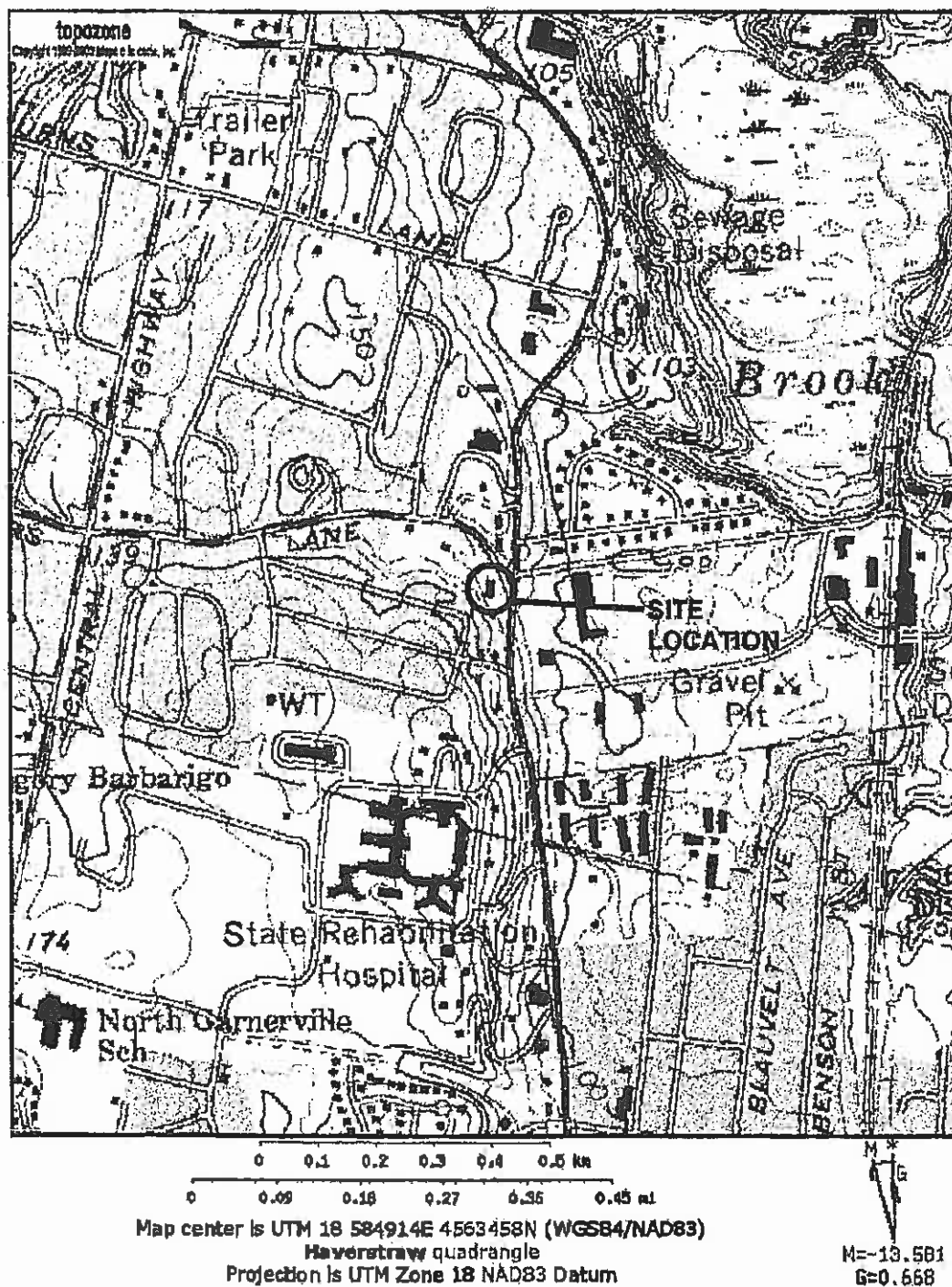


FIGURE 1  
 SITE LOCATION  
 149 SOUTH LIBERTY DRIVE  
 STONY POINT, NEW YORK  
 HRP # ATW0001.P2

J:\A\ATW01 - A2L TECHNOLOGIES, INC\153 SOUTH LIBERTY DR, STONY POINT, NY\ATW0001P2\CAD\SITE PLAN.dwg, Layout1, 04/26/2006 03:58:01 PM, Adobe PDF

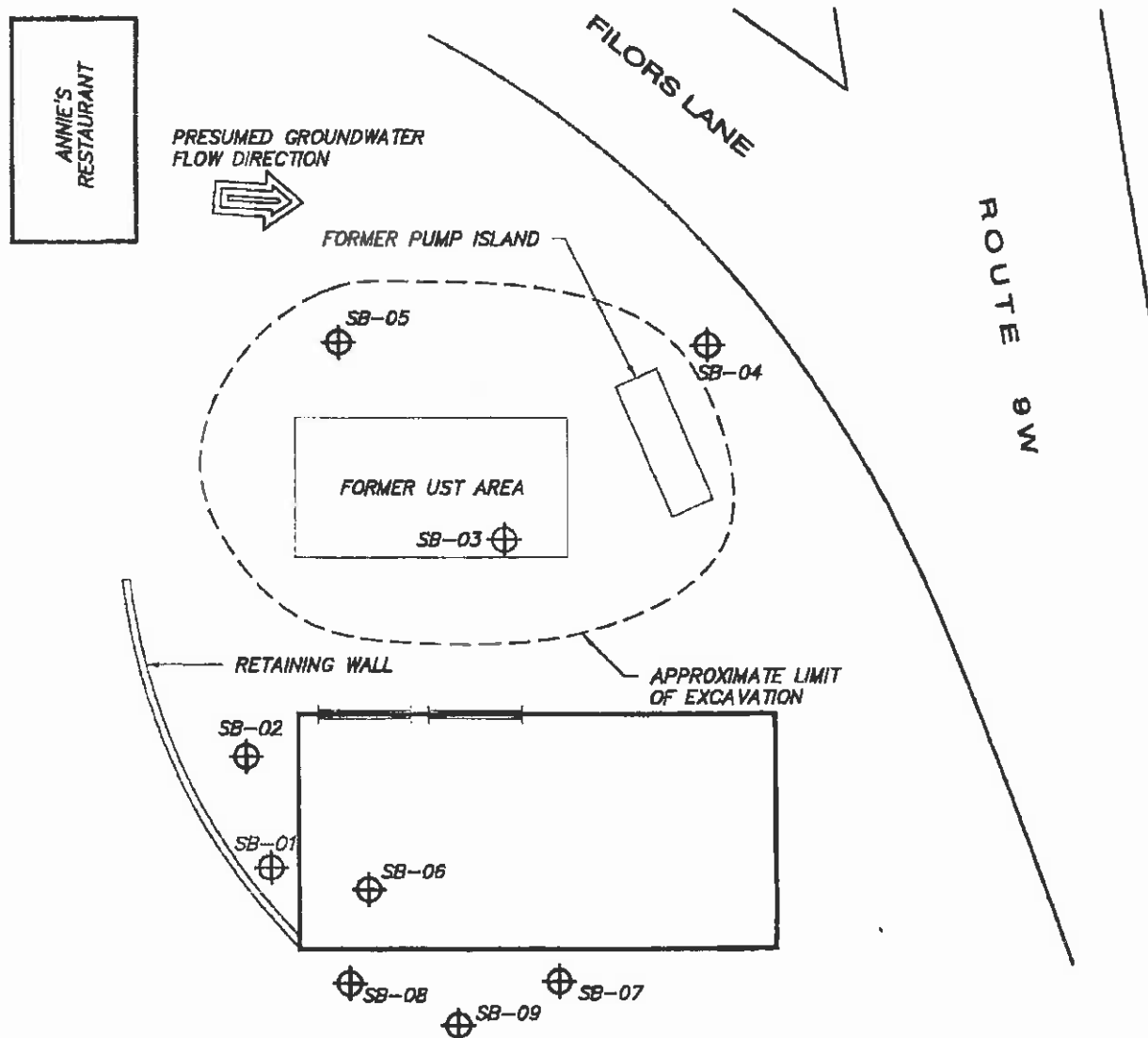


FIGURE 2  
SITE PLAN  
149 SOUTH LIBERTY DRIVE  
STONY POINT, NEW YORK  
HRP # ATW0001.P2  
NOT TO SCALE

**ATTACHMENT #1**  
**SOIL BORING LOGS**

Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-01 Well # Sheet No. 1	
Type: Macrocore I.D.: 1.75" Location: Former Waste oil Tank Area				Hammer (wt/Fall): Rig Type: Mobile Drill Combination		Start: 4/12/2006 Finish: 4/12/2006 Driller: Chrls HRP Rep: Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-4'	2	Loose, dry	0-1'	Dark Brown coarse SAND, trace gravel.	0
2					1-4'	Brown SAND AND GRAVEL, little silt.	0
3							
4							
5		4-5'	0	NA	NA	No Recovery, sampler refusal at 5'.	NA
6		5-9'	2.3'	Dense, dry	5-12'	Greenish grey SAND AND GRAVEL, trace silt.	0
7							
8							
9							
10		9-13'	1.7'	Med. Dense, wet	12-13'	Reddish brown SILTY SAND, trace fine gravel.	0
11							
12							
13							
14						Bottom of boring at 13'.	SS-Soil Sample HS-Head Space
15							
16							
17							
18							
19							
20							
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 90" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 medium stiff 9 - 18 stiff 18 - 30 very stiff 31+ hard		trace 0-10% little 10-20% some 20-35% and 30-50%

Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.</b> <b>ENGINEERING &amp; GEOLOGY</b> <b>DRILLING LOG</b>		Hole # SB-02 Well # Sheet No. 1	
Type: Macrocore I.D.: 1.75" Location: Former Waste oil Tank Area				Hammer (wt/Fall): Rig Type: Mobile Drill Combination		Start: 4/12/2006 Finish: 4/12/2006 Driller: Chris HRP Rep: Lovenduski	
Depth (8" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-4'	2.1'	Loose, dry	0-4'	<u>Grey fine rounded GRAVEL</u>	0
2							
3							
4							
5		4-8'	.5'	Loose, moist	4-10'	<u>Grayish green SAND AND GRAVEL</u> , little silt.	2
6							
7							
8							
9		8-12'	2.8'	Dense, moist	10-12'	<u>Brown SILTY SAND</u> , trace fine rounded gravel.	0
10							
11							
12							
13						Bottom of boring at 12'.	SS-Soil Sample HS-Head Space
14							
15							
16							
17							
18							
19							
20							
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 m/soft 9 - 15 stiff 16 - 30 v/stiff 31+ hard		trace 0-10% little 10-20% some 20-35% and 30-50%



Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-03 Well # Sheet No. 1	
Type: Macrocore I.D.: 1.75" Location: Former UST Area				Hammer (w/Fall): Rig Type: Mobile Drill Combination		Start: 4/12/2008 Finish: 4/12/2008 Driller: Chris HRP Rep: Lovenduski	
Depth (8" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/ Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-4'	1.5'	Loose, dry	0-4'	<u>Grey SAND AND GRAVEL</u> , little silt, trace brick fragments.	0
2							
3							
4							
5		4-8'	1.8'		4-8'	<u>Grayish brown SILTY SAND</u> , trace gravel.	0
6							
7							
8							
9		8-12'	2'	Loose, moist	8-12'	<u>Brown SILTY SAND</u> .	0
10							
11							
12							
13		12-15'	.9'		12-15'	<u>Brownish grey SILTY SAND</u> , trace fine rounded gravel.	0
14							
15							
16							
16		15-19'	2.1'	Loose, wet	15-16'	Grayish brown medium SAND, ODOR.	3.6
17				Dense, dry	16-19'	<u>Brown SILTY SAND</u> , little fine rounded gravel.	0
18							
19							
20		19-21'	0.5'		19-21'	<u>Reddish brown SAND AND GRAVEL</u> , little silt.	0
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. WL. Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/ Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose	0 - 2 very soft		trace 0-10% little 10-20% some 20-35% and 30-50%
				5 - 9 loose	3 - 4 soft		
				10 - 29 med. dense	5 - 8 m/stiff		
				30 - 49 dense	9 - 15 stiff		
				50+ very dense	16 - 30 v/stiff		
					31+ hard		

Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-03 Well # Sheet No. 2	
Type: Macrocore I.D.: 1.75" Location: Former UST Area				Hammer (w/Fall): Rig Type: Mobile Drill Combination		Start: 4/12/2006 Finish: 4/12/2006 Driller: Chris HRP Rep: Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/ Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID (ppm)
21		Continued from page 1					
22		21-25'	1.4'	Dense, moist	19-25'	Reddish brown SAND AND GRAVEL, little silt.	0
23							
24							
25							
26		25-29'	4'	Loose, wet	25-29'	Greyish green medium SAND.	0
27							
28							
29							
30						Bottom of boring at 29'. Set temporary 1" PVC well to collect groundwater sample.	SS-Soil Sample HS-Head Space
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/ Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 med/stiff 9 - 15 stiff 16 - 30 v/stiff 31+ hard		trace 0-10% little 10-20% some 20-35% and 30-50%

Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-04 Well # Sheet No. 1	
Type: Macrocore LD.: 1.75" Location: Former Dispenser Area				Hammer (wt/Fall): Rig Type: Mobile Drill Combination		Start: 4/12/2006 Finish: 4/12/2006 Driller: Chris HRP Rep: Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/ Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-4'	0.8'	Loose, dry	0-4'	Grey SAND AND GRAVEL, little silt.	0
2							
3							
4							
5		4-8'	1.2'				0
6							
7							
8							
9		8-12'	1.4'	Loose, moist	4-18'	Brownish grey SAND AND GRAVEL, some wood fragments.	0
10							
11							
12							
13		12-15'	0.8'				2.2 Slight odor
14							
15							
16		15-19'	1.9'				6.6 Odor
17							
18							
19							
20		19-21'	1.4	Dense, dry	18-22'	Reddish brown SILTY SAND, trace gravel.	17.2 Strong odor
							1.2
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 30" on 2" O.D. Sampler			
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density		Cohesive Consistence	
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense		0 - 2 very soft 3 - 4 soft 5 - 8 m/stiff 9 - 16 stiff 18 - 30 v/stiff 31+ hard	
				trace 0-10% little 10-20% some 20-35% and 30-50%			

Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-04 Well # Sheet No. 2	
Type: Macrocore I.D.: 1.75" Location: Former Dispenser Area				Hammer (wt/Fa): Rig Type: Mobile Drill Combination		Start: 4/12/2006 Finish: 4/12/2008 Driller: Chris HRP Rep: Lovenduski	
Depth (6" intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID (ppm)
21		Continued from page 1					
22		21-23'	0.5'	Loose, wet	21-23'	<u>Grey medium SAND.</u>	17.5
23							
24							
25						Augered to 25' to set 1" PVC well to collect groundwater sample.	SS-Soil Sample HS-Head Space
26							
27							
28							
29							
30							
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 m/sift 9 - 16 stiff 16 - 30 v/stiff 31+ hard	trace 0-10% little 10-20% some 20-35% and 30-50%	

<b>Project:</b> Stony Point <b>HRP Job #:</b> ATW00001.P2 <b>Contractor:</b> Aztech				<b>HRP ASSOCIATES, INC.</b> <b>ENGINEERING &amp; GEOLOGY</b> <b>DRILLING LOG</b>		<b>Hole #</b> SB-05 <b>Well #</b> <b>Sheet No.</b> 1	
<b>Type:</b> Macrocore <b>I.D.:</b> 1.75" <b>Location:</b> Northwest Edge of Excavation.				<b>Hammer (w/Fall):</b> <b>Rig Type:</b> Mobile Drill Combination		<b>Start:</b> 4/12/2008 <b>Finish:</b> 4/12/2008 <b>Driller:</b> Chris <b>HRP Rep:</b> Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-4'	1.6'		0-5'	<u>Greyish brown SAND AND GRAVEL</u> , little silt.	0
2							
3							
4							
5		4-8'	1.7'	Loose, dry			0
6							
7							
8							
9		8-12'	1.8'		5-14'	<u>Greyish brown SILTY SAND</u> , trace gravel.	1.2 Slight odor
10							
11							
12							
13		12-15'	1.2'				3.4 Slight odor
14							
15							
16							
17		15-19'	2.5'	Dense, moist	14-17'	<u>Reddish brown SILTY SAND</u> , trace gravel.	2.2 Slight odor
18							
19							
20							
				Loose, wet	17-19'	<u>Greyish brown medium SAND</u> .	1.3 Slight odor
Augered to 20', set 1" temporary PVC well to collect groundwater sample.							0
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 80" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 m/stiff 9 - 15 stiff 16 - 30 v/hard 31+ hard		
							trace 0-10% little 10-20% some 20-35% and 30-50%

<b>Project:</b> Stony Point <b>HRP Job #:</b> ATW00001.P2 <b>Contractor:</b> Aztech				<b>HRP ASSOCIATES, INC.</b> <b>ENGINEERING &amp; GEOLOGY</b> <b>DRILLING LOG</b>		<b>Hole #</b> SB-06 <b>Well #</b> <b>Sheet No.</b> 1	
<b>Type:</b> Macrocore <b>I.D.:</b> 1.75" <b>Location:</b> Former In Ground Lift Area				<b>Hammer (wt/Fall):</b> <b>Rig Type:</b> Mobile Drill Combination		<b>Start:</b> 4/12/2006 <b>Finish:</b> 4/12/2006 <b>Driller:</b> Chris <b>HRP Rep:</b> Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-4'	1.8'	Loose, dry	0-2'	<u>Grey SAND AND GRAVEL</u> , trace silt.	0
2							
3							
4							
5		4-8'	3'	Dense, moist	2-6'	<u>Greenish grey SILTY SAND</u> , trace gravel.	1.5
6							
7							
8							
9		8-9.5'	0.2'	Loose, moist	6-6.5'	<u>Greenish brown medium SAND</u>	2.7 odor
10							
11							
12							
13		10-12'	1.5	Dense, moist	10-12'	<u>Reddish brown SILTY SAND</u> , trace fine gravel.	0
14							
15							
16							
17		12-14'	0	NO RECOVERY			
18							
19							
20							
21		Augered to 10'					
22		15-17'	0.6'	Loose, wet	15-17'	<u>Brown to light brown SILTY SAND</u> , some fine angular gravel.	0
23							
24							
25							
26							
27							
28							
29							
30		Augered to 20', set 1" temporary PVC well to collect groundwater sample.					
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. WL Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 49 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 medium stiff 9 - 15 stiff 16 - 30 very stiff 31+ hard		
				trace 0-10% little 10-20% some 20-35% and 30-50%			

Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-07 Well # Sheet No. 1	
Type: Macrocore I.D.: 1.75" Location: Rear of Building (Alleged Dumping Area)				Hammer (w/Fall): Rig Type: Hand Dig		Start: 4/12/2006 Finish: 4/12/2006 Driller: Chris HRP Rep: Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-2'	2	Loose, dry	0-2	Brown SILTY SAND, some cobbles, trace metal pieces (wires, brake lines, sprockets).	0
2							
3						Bottom of boring at 2 feet	SS-Soil Sample HS-Head Space
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose 5 - 9 loose 10 - 29 med. dense 30 - 48 dense 50+ very dense	0 - 2 very soft 3 - 4 soft 5 - 8 m/stiff 9 - 15 stiff 16 - 30 v/stiff 31+ hard	trace 0-10% little 10-20% some 20-35% and 30-50%	

<b>Project:</b> Stony Point <b>HRP Job #:</b> ATW00001.P2 <b>Contractor:</b> Aztech				<b>HRP ASSOCIATES, INC.</b> <b>ENGINEERING &amp; GEOLOGY</b> <b>DRILLING LOG</b>		<b>Hole #</b> SB-08 <b>Well #</b> <b>Sheet No.</b> 1	
<b>Type:</b> Macrocore <b>I.D.:</b> 1.75" <b>Location:</b> Rear of Building (Alleged Dumping Area)						<b>Start:</b> 4/12/2006 <b>Finish:</b> 4/12/2006 <b>Driller:</b> Chris <b>HRP Rep:</b> Lovenduski	
		<b>Hammer (wt/fall):</b> <b>Rig Type:</b> Hand Dig					
<b>Depth (6" Intervals)</b>	<b>Macro-core Samples</b>	<b>Sample Interval</b>	<b>Recovery (ft)</b>	<b>Density or Consistency/Moisture</b>	<b>Profile Change</b>	<b>Remarks (color, structure, grain size, staining, odor, PID)</b>	<b>PID HS (ppm)</b>
1		0-2'	2	Loose, dry	0-2	Brown SILTY SAND, some cobbles, trace metal pieces (wires, brake lines, sprockets).	0
2							
3						Bottom of boring at 2 feet	SS-Soil Sample HS-Head Space
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
<b>GROUNDWATER OBSERVATIONS</b>				<b>SAMPLE PENETRATION RESISTANCE</b> 140 lb. WL. Falling 30" on 2" O.D. Sampler			<b>Proportions</b>
<b>Depth</b>	<b>Date</b>	<b>Casing/Screen</b>	<b>Stability Time</b>	<b>Cohesionless Density</b>	<b>Cohesive Consistence</b>		
				0 - 4 very loose	0 - 2 very soft		trace 0-10% little 10-20% some 20-35% and 30-50%
				5 - 9 loose	3 - 4 soft		
				10 - 29 med. dense	5 - 8 m/stiff		
				30 - 49 dense	9 - 15 stiff		
				50+ very dense	16 - 30 v/stiff		
					31+ hard		



Project: Stony Point HRP Job #: ATW00001.P2 Contractor: Aztech				<b>HRP ASSOCIATES, INC.          ENGINEERING &amp; GEOLOGY          DRILLING LOG</b>		Hole # SB-09 Well # Sheet No. 1	
Type: Macrocore I.D.: 1.75" Location: Rear of Building (Alleged Dumping Area)				Hammer (wt/Fall): Rig Type: Hand Dig		Start: 4/12/2006 Finish: 4/12/2006 Driller: Chris HRP Rep: Lovenduski	
Depth (6" Intervals)	Macro-core Samples	Sample Interval	Recovery (ft)	Density or Consistency/ Moisture	Profile Change	Remarks (color, structure, grain size, staining, odor, PID)	PID HS (ppm)
1		0-2'	2	Loose, dry	0-2	Brown SILTY SAND, some cobbles, trace metal pieces (wires, brake lines, sprockets).	0
2							
3						Bottom of boring at 2 feet	SS-Soil Sample HS-Head Space
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
GROUNDWATER OBSERVATIONS				SAMPLE PENETRATION RESISTANCE 140 lb. Wt. Falling 30" on 2" O.D. Sampler			Proportions
Depth	Date	Casing/Screen	Stability Time	Cohesionless Density	Cohesive Consistence		
				0 - 4 very loose	0 - 2 very soft	trace 0-10% little 10-20% some 20-35% and 30-50%	
				5 - 9 loose	3 - 4 soft		
				10 - 28 med. dense	5 - 8 m/stiff		
				30 - 49 dense	9 - 15 stiff		
				50+ very dense	16 - 30 v/stiff		
					31+ hard		

**ATTACHMENT #2**  
**LABORATORY REPORT FORMS**



# **HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803  
 Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803  
 Phone: 518/747-1060 Fax: 518/747-1062

## **ANALYTICAL TEST RESULTS** **N.Y.S.D.O.H. Lab ID#11140**

**CLIENT:** HRP Associates, Inc.

**SAMPLE DESCRIPTION:** SB-02 (4 ~ 6')

**MATRIX:** Soil

**LOCATION:** Stony Point, NY

**H.E.S.#:** 060414P01

**DATE SAMPLED:** 04/12/06

**TIME SAMPLED:** 10:35 am

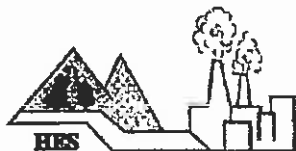
**DATE SAMPLE RECD:** 04/14/06

**TYPE SAMPLE:** Composite

**SAMPLER:** E. Lovenduski/HRP

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<14	ug/kg	04/18/06
Benzene	SW846-8260B	<14	ug/kg	04/18/06
Toluene	SW846-8260B	<14 B	ug/kg	04/18/06
Ethylbenzene	SW846-8260B	<14	ug/kg	04/18/06
Total Xylenes	SW846-8260B	89 B	ug/kg	04/18/06
Isopropylbenzene	SW846-8260B	<14	ug/kg	04/18/06
n-Propylbenzene	SW846-8260B	<14	ug/kg	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	240 B	ug/kg	04/18/06
tert-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	72 B	ug/kg	04/18/06
sec-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
p-Isopropyltoluene	SW846-8260B	57	ug/kg	04/18/06
n-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
Naphthalene	SW846-8260B	<14 B	ug/kg	04/18/06
Non-Target Peaks		Negative		
Acenaphthene	SW846-8270C	<270	ug/kg	04/25/06
Fluorene	SW846-8270C	<270	ug/kg	04/25/06
Phenanthrene	SW846-8270C	<270	ug/kg	04/25/06
Anthracene	SW846-8270C	<270	ug/kg	04/25/06
Fluoranthene	SW846-8270C	<270	ug/kg	04/25/06
Pyrene	SW846-8270C	<270	ug/kg	04/25/06
Benzo (a) anthracene	SW846-8270C	<270	ug/kg	04/25/06
Chrysene	SW846-8270C	<270	ug/kg	04/25/06
Benzo (b) fluoranthene	SW846-8270C	<270	ug/kg	04/25/06
Benzo (k) fluoranthene	SW846-8270C	<270	ug/kg	04/25/06
Benzo (a) pyrene	SW846-8270C	<270	ug/kg	04/25/06
Indeno (1,2,3-CD) pyrene	SW846-8270C	<270	ug/kg	04/25/06
Dibenz (a,h) anthracene	SW846-8270C	<270	ug/kg	04/25/06
Benzo (g,h,i) perylene	SW846-8270C	<270	ug/kg	04/25/06
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	92	%	04/18/06





**HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803

Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803

Phone: 518/747-1060 Fax: 518/747-1062

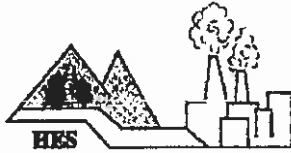
CLIENT: HRP Associates, Inc.

SAMPLE DESCRIPTION: SB-02 (4 - 6')

H.E.S. #: 060414F01 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.86	mg/kg	04/25/06
Barium	SW846-6010B	37	mg/kg	04/25/06
Cadmium	SW846-6010B	<0.16	mg/kg	04/25/06
Chromium	SW846-6010B	25	mg/kg	04/25/06
Lead	SW846-6010B	43	mg/kg	04/25/06
Mercury	SW846-7471A	<0.06	mg/kg	04/25/06
Selenium	SW846-6010B	<3.0	mg/kg	04/25/06
Silver	SW846-7760A	2.2	mg/kg	04/25/06



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Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: HRP Associates, Inc.

DATE SAMPLED: 04/12/06

SAMPLE DESCRIPTION: SB-04 (17 - 19')

TIME SAMPLED: 13:24 pm

MATRIX: Soil

DATE SAMPLE RECD: 04/14/06

LOCATION: Stony Point, NY

TYPE SAMPLE: Composite

H.E.S.#: 060414F02

SAMPLER: E.Lovenduski/HRP

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8260B	16	ug/kg	04/18/06
Benzene	SW846-8260B	630	ug/kg	04/18/06
Toluene	SW846-8260B	3,800 B	ug/kg	04/18/06
Ethylbenzene	SW846-8260B	1,900	ug/kg	04/18/06
Total Xylenes	SW846-8260B	5,900 B	ug/kg	04/18/06
Isopropylbenzene	SW846-8260B	510	ug/kg	04/18/06
n-Propylbenzene	SW846-8260B	930	ug/kg	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	1,600	ug/kg	04/18/06
tert-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	2,800 B	ug/kg	04/18/06
sec-Butylbenzene	SW846-8260B	27	ug/kg	04/18/06
p-Isopropyltoluene	SW846-8260B	160	ug/kg	04/18/06
n-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
Naphthalene	SW846-8260B	410 B	ug/kg	04/18/06
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	89	%	04/18/06





**HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803  
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CLIENT: HRF Associates, Inc.

SAMPLE DESCRIPTION: SB-04 (17 - 19')

H.E.S. #: 060414F02 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.89	mg/kg	04/25/06
Barium	SW846-6010B	55	mg/kg	04/25/06
Cadmium	SW846-6010B	<0.16	mg/kg	04/25/06
Chromium	SW846-6010B	34	mg/kg	04/25/06
Lead	SW846-6010B	6.6	mg/kg	04/25/06
Mercury	SW846-7471A	<0.07	mg/kg	04/25/06
Selenium	SW846-6010B	<3.2	mg/kg	04/25/06
Silver	SW846-7760A	1.1	mg/kg	04/25/06





# **HUDSON ENVIRONMENTAL SERVICES, INC.**

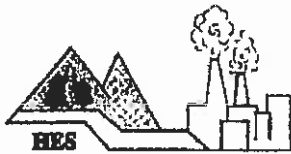
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CLIENT: HRP Associates, Inc.  
SAMPLE DESCRIPTION: SB-06 (6 - 8')  
MATRIX: Soil  
LOCATION: Story Point, NY  
H.E.S.#: 060414F03

DATE SAMPLED: 04/12/06  
TIME SAMPLED: 15:39 pm  
DATE SAMPLE RECD: 04/14/06  
TYPE SAMPLE: Composite  
SAMPLER: E.Lovenduski/HRP

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8260B	<14	ug/kg	04/18/06
Benzene	SW846-8260B	<14	ug/kg	04/18/06
Toluene	SW846-8260B	<14 B	ug/kg	04/18/06
Ethylbenzene	SW846-8260B	<14	ug/kg	04/18/06
Total Xylenes	SW846-8260B	14 B	ug/kg	04/18/06
Isopropylbenzene	SW846-8260B	<14	ug/kg	04/18/06
n-Propylbenzene	SW846-8260B	27	ug/kg	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	22	ug/kg	04/18/06
tert-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	51 B	ug/kg	04/18/06
sec-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
p-Isopropyltoluene	SW846-8260B	19	ug/kg	04/18/06
n-Butylbenzene	SW846-8260B	<14	ug/kg	04/18/06
Naphthalene	SW846-8260B	<14 B	ug/kg	04/18/06
Non-Target Peaks		Negative		
Acenaphthene	SW846-8270C	<280	ug/kg	04/25/06
Fluorene	SW846-8270C	<280	ug/kg	04/25/06
Phenanthrene	SW846-8270C	<280	ug/kg	04/25/06
Anthracene	SW846-8270C	<280	ug/kg	04/25/06
Fluoranthene	SW846-8270C	<280	ug/kg	04/25/06
Pyrene	SW846-8270C	<280	ug/kg	04/25/06
Benzo (a) anthracene	SW846-8270C	<280	ug/kg	04/25/06
Chrysene	SW846-8270C	<280	ug/kg	04/25/06
Benzo (b) fluoranthene	SW846-8270C	<280	ug/kg	04/25/06
Benzo (k) fluoranthene	SW846-8270C	<280	ug/kg	04/25/06
Benzo (a) pyrene	SW846-8270C	<280	ug/kg	04/25/06
Indeno (1,2,3-CD) pyrene	SW846-8270C	<280	ug/kg	04/25/06
Dibenz (a,h) anthracene	SW846-8270C	<280	ug/kg	04/25/06
Benzo (g,h,i) perylene	SW846-8270C	<280	ug/kg	04/25/06
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	92	%	04/18/06





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Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: HRP Associates, Inc.

SAMPLE DESCRIPTION: SB-06 (6 - 8')

H.E.S. #: D60414P03 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.86	mg/kg	04/25/06
Barium	SW846-6010B	64	mg/kg	04/25/06
Cadmium	SW846-6010B	<0.16	mg/kg	04/25/06
Chromium	SW846-6010B	38	mg/kg	04/25/06
Lead	SW846-6010B	7.9	mg/kg	04/25/06
Mercury	SW846-7471A	<0.07	mg/kg	04/25/06
Selenium	SW846-6010B	<3.1	mg/kg	04/25/06
Silver	SW846-7760A	<0.54	mg/kg	04/25/06
Total PCB's	SW846-8082	<0.02	mg/kg	04/24/06

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CLIENT: HRP Associates  
SAMPLE DESCRIPTION: SE-08 (0 - 2')  
MATRIX: Soil  
LOCATION: Story Point, NY  
H.E.S.#: 060414P04

DATE SAMPLED: 04/12/06  
TIME SAMPLED: 17:10 pm  
DATE SAMPLE RECD: 04/14/06  
TYPE SAMPLE: Composite  
SAMPLER: E.Lovenduski/HRP

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<15	ug/kg	04/18/06
Benzene	SW846-8260B	<15	ug/kg	04/18/06
Toluene	SW846-8260B	<15	ug/kg	04/18/06
Ethylbenzene	SW846-8260B	<15	ug/kg	04/18/06
Total Xylenes	SW846-8260B	<15	ug/kg	04/18/06
Isopropylbenzene	SW846-8260B	<15	ug/kg	04/18/06
n-Propylbenzene	SW846-8260B	<15	ug/kg	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	<15	ug/kg	04/18/06
tert, Butylbenzene	SW846-8260B	<15	ug/kg	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	<15	ug/kg	04/18/06
sec-Butylbenzene	SW846-8260B	<15	ug/kg	04/18/06
p-Isopropyltoluene	SW846-8260B	<15	ug/kg	04/18/06
n-Butylbenzene	SW846-8260B	<15	ug/kg	04/18/06
Naphthalene	SW846-8260B	<15 B	ug/kg	04/18/06
Non-Target Peaks		Negative		
Acenaphthene	SW846-8270C	<330	ug/kg	04/25/06
Fluorene	SW846-8270C	<330	ug/kg	04/25/06
Phenanthrene	SW846-8270C	<330	ug/kg	04/25/06
Anthracene	SW846-8270C	<330	ug/kg	04/25/06
Fluoranthene	SW846-8270C	<330	ug/kg	04/25/06
Pyrene	SW846-8270C	<330	ug/kg	04/25/06
Benzo (a) anthracene	SW846-8270C	<330	ug/kg	04/25/06
Chrysene	SW846-8270C	<330	ug/kg	04/25/06
Benzo (b) fluoranthene	SW846-8270C	<330	ug/kg	04/25/06
Benzo (k) fluoranthene	SW846-8270C	<330	ug/kg	04/25/06
Benzo (a) pyrene	SW846-8270C	<330	ug/kg	04/25/06
Indeno (1,2,3-CD) pyrene	SW846-8270C	<330	ug/kg	04/25/06
Dibenz (a,h) anthracene	SW846-8270C	<330	ug/kg	04/25/06
Benzo (g,h,i) perylene	SW846-8270C	<330	ug/kg	04/25/06
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	85	%	04/18/06





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CLIENT: HRP Associates, Inc.

SAMPLE DESCRIPTION: SB-08 (0 - 2')

H.E.S. #: 060414F04 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.94	mg/kg	04/25/06
Barium	SW846-6010B	68	mg/kg	04/25/06
Cadmium	SW846-6010B	<0.17	mg/kg	04/25/06
Chromium	SW846-6010B	54	mg/kg	04/25/06
Lead	SW846-6010B	290	mg/kg	04/25/06
Mercury	SW846-7471A	<0.07	mg/kg	04/25/06
Selenium	SW846-6010B	<3.3	mg/kg	04/25/06
Silver	SW846-7760A	<0.58	mg/kg	04/25/06

All results on a dry weight, except Total Solids.

B = The above test results meet all the requirements of NELAP with the following exception:  
For method 8260B, method blank contamination was found.

Approval By:

*Mirza M. Hussain*

Technical Director  
Dr. Mirza M. Hussain

Date: April 25, 2006

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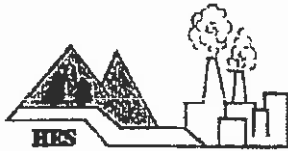


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**ANALYTICAL TEST RESULTS**  
**N.Y.S.D.O.E. LAB ID#11140****CLIENT:** HRP Associates, Inc.**DATE SAMPLED:** 04/12/06**SAMPLE DESCRIPTION:** SB-03**TIME SAMPLED:** 11:00 am**MATRIX:** Groundwater**DATE SAMPLE RECD:** 04/14/06**LOCATION:** Stony Point, NY**TYPE SAMPLE:** Grab**H.E.S.#:** 060414G01**SAMPLER:** E.Lovendusky/HRP

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8260B	<0.5	0.5	ug/l	04/18/06
Benzene	SW846-8260B	1.4	0.5	ug/l	04/18/06
Toluene	SW846-8260B	0.94 B	0.5	ug/l	04/18/06
Ethylbenzene	SW846-8260B	10	0.5	ug/l	04/18/06
Total Xylenes	SW846-8260B	20 B	0.5	ug/l	04/18/06
Isopropylbenzene	SW846-8260B	4.9	0.5	ug/l	04/18/06
n-Propylbenzene	SW846-8260B	6.4	0.5	ug/l	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	11	0.5	ug/l	04/18/06
tert-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	23 B	0.5	ug/l	04/18/06
sec-Butylbenzene	SW846-8260B	1.0	0.5	ug/l	04/18/06
p-Isopropyltoluene	SW846-8260B	0.70	0.5	ug/l	04/18/06
n-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
Naphthalene	SW846-8260B	0.6 B	0.5	ug/l	04/18/06

**Non-Target Peaks****Negative**

**HUDSON ENVIRONMENTAL SERVICES, INC.**

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CLIENT: HRP Associates, Inc.SAMPLE DESCRIPTION: SB-03H.E.S. #: 060414G01 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	26	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	3.8	0.007	mg/l	04/20/06
Lead	SW846-6010B	0.65	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	0.09	0.01	mg/l	04/21/06

DISSOLVED METALS

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	0.14	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	0.018	0.007	mg/l	04/20/06
Lead	SW846-6010B	<0.042	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	<0.01	0.01	mg/l	04/21/06



**HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803

Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803

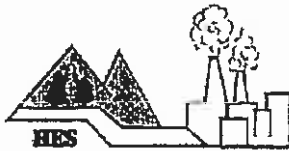
Phone: 518/747-1060 Fax: 518/747-1062

**CLIENT:** HRP Associates, Inc.  
**SAMPLE DESCRIPTION:** SB-04  
**MATRIX:** Groundwater  
**LOCATION:** Stony Point, NY  
**H.E.S.#:** 060414G02

**DATE SAMPLED:** 04/12/06  
**TIME SAMPLED:** 2:00 pm  
**DATE SAMPLE RECD:** 04/14/06  
**TYPE SAMPLE:** Grab  
**SAMPLER:** E.Lovendusky/HRP

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8260B	910	25	ug/l	04/18/06
Benzene	SW846-8260B	2,800	25	ug/l	04/18/06
Toluene	SW846-8260B	2,600 B	25	ug/l	04/18/06
Ethylbenzene	SW846-8260B	2,300	25	ug/l	04/18/06
Total Xylenes	SW846-8260B	5,700 B	25	ug/l	04/18/06
Isopropylbenzene	SW846-8260B	150	25	ug/l	04/18/06
n-Propylbenzene	SW846-8260B	260	25	ug/l	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	400	25	ug/l	04/18/06
tert-Butylbenzene	SW846-8260B	<25	25	ug/l	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	1,100 B	25	ug/l	04/18/06
sec-Butylbenzene	SW846-8260B	<25	25	ug/l	04/18/06
p-Isopropyltoluene	SW846-8260B	<25	25	ug/l	04/18/06
n-Butylbenzene	SW846-8260B	<25	25	ug/l	04/18/06
Naphthalene	SW846-8260B	280 B	25	ug/l	04/18/06
Non-Target Peaks		Negative			



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Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: HRP Associates, Inc.SAMPLE DESCRIPTION: SB-04H.E.S. #: 060414G02 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	16	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	3.2	0.007	mg/l	04/20/06
Lead	SW846-6010B	0.60	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	0.06	0.01	mg/l	04/21/06

DISSOLVED METALS

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	0.20	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	0.01	0.007	mg/l	04/20/06
Lead	SW846-6010B	<0.042	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	<0.01	0.01	mg/l	04/21/06



**HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803

Delivery: 211 Perry Blvd., So. Glens Falls, NY 12803

Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: HRP Associates, Inc.DATE SAMPLED: 04/12/06SAMPLE DESCRIPTION: S3-05TIME SAMPLED: 3:00 pmMATRIX: GroundwaterDATE SAMPLE RECD: 04/14/06LOCATION: Stony Point, NYTYPE SAMPLE: GrabH.E.S.#: 060414G03SAMPLER: E. Lovendusky/HRP

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8260B	1.6	0.5	ug/l	04/18/06
Benzene	SW846-8260B	3.1	0.5	ug/l	04/18/06
Toluene	SW846-8260B	16 B	0.5	ug/l	04/18/06
Ethylbenzene	SW846-8260B	63	0.5	ug/l	04/18/06
Total Xylenes	SW846-8260B	56	0.5	ug/l	04/18/06
Isopropylbenzene	SW846-8260B	32	0.5	ug/l	04/18/06
n-Propylbenzene	SW846-8260B	76	0.5	ug/l	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	27	0.5	ug/l	04/18/06
tert-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	120 B	0.5	ug/l	04/18/06
sec-Butylbenzene	SW846-8260B	11	0.5	ug/l	04/18/06
p-Isopropyltoluene	SW846-8260B	1.6	0.5	ug/l	04/18/06
n-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
Naphthalene	SW846-8260B	48 B	0.5	ug/l	04/18/06
Non-Target Peaks		Positive			





# HUDSON ENVIRONMENTAL SERVICES, INC.

Mt. 22 Hudson Falls Rd., So. Glens Falls, NY 12803  
Delivery: 211 Perry Blvd., So. Glens Falls, NY 12803  
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: ERP Associates, Inc.

SAMPLE DESCRIPTION: JB-05

H.E.S. #: 060414G03 (Continued)

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	13	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	3.7	0.007	mg/l	04/20/06
Lead	SW846-6010B	0.84	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	0.06	0.01	mg/l	04/21/06

## DISSOLVED METALS

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	0.10	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	0.01	0.007	mg/l	04/20/06
Lead	SW846-6010B	<0.042	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	<0.01	0.01	mg/l	04/21/06

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**HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 21 Hudson Falls Rd., So. Glens Falls, NY 12803  
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803  
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: HRP Associates, Inc.

DATE SAMPLED: 04/12/06

SAMPLE DESCRIPTION: SB-06

TIME SAMPLED: 3:00 pm

MATRIX: Groundwater

DATE SAMPLE RECD: 04/14/06

LOCATION: Stony Point, NY

TYPE SAMPLE: Grab

H.E.S.#: 060414G04

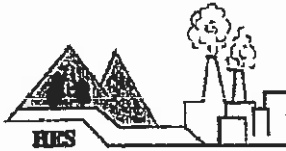
SAMPLER: E.Lovendusky/HRP

<u>PARAMETER</u>	<u>METHOD</u>	<u>RESULT</u>	<u>MRL</u>	<u>UNITS</u>	<u>TEST DATE</u>
MTBE	SW846-8260B	<0.5	0.5	ug/l	04/18/06
Benzene	SW846-8260B	1.2	0.5	ug/l	04/18/06
Toluene	SW846-8260B	0.91 B	0.5	ug/l	04/18/06
Ethylbenzene	SW846-8260B	1.0	0.5	ug/l	04/18/06
Total Xylenes	SW846-8260B	2.3 B	0.5	ug/l	04/18/06
Isopropylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
n-Propylbenzene	SW846-8260B	1.0	0.5	ug/l	04/18/06
1,3,5-Trimethylbenzene	SW846-8260B	1.3	0.5	ug/l	04/18/06
tert-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
1,2,4-Trimethylbenzene	SW846-8260B	3.7 B	0.5	ug/l	04/18/06
sec-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
p-Isopropyltoluene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
n-Butylbenzene	SW846-8260B	<0.5	0.5	ug/l	04/18/06
Naphthalene	SW846-8260B	2.1 B	0.5	ug/l	04/18/06

Non-Target Peaks

Negative



**HUDSON ENVIRONMENTAL SERVICES, INC.**

Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803  
Delivery: 211 Perry Blvd., So. Glens Falls, NY 12803  
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: HRP Associates, Inc.  
SAMPLE DESCRIPTION: SB-06  
H.E.S. #: 060414G04 (Continued)

PARAMETER	METHOD	RESULT	MRL	UNITS	TEST DATE
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	6.4	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	3.4	0.007	mg/l	04/20/06
Lead	SW846-6010B	0.34	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	0.15	0.057	mg/l	04/20/06
Silver	SW846-7760A	0.07	0.01	mg/l	04/21/06

**DISSOLVED METALS**

PARAMETER	METHOD	RESULT	MRL	UNITS	TEST DATE
Arsenic	SW846-6010B	<0.016	0.06	mg/l	04/20/06
Barium	SW846-6010B	0.08	0.003	mg/l	04/20/06
Cadmium	SW846-6010B	<0.003	0.003	mg/l	04/20/06
Chromium	SW846-6010B	<0.007	0.007	mg/l	04/20/06
Lead	SW846-6010B	<0.042	0.042	mg/l	04/20/06
Mercury	SW846-7471A	<0.001	0.001	mg/l	04/24/06
Selenium	SW846-6010B	<0.057	0.057	mg/l	04/20/06
Silver	SW846-7760A	<0.01	0.01	mg/l	04/21/06

NOTE: MRL = Minimum Reporting Limit

B - The above test results meet all the requirements of NELAC with the following exception:  
For method 8260B, method blank contamination was found.

Approval By:

*Mirza Magnum Hussain*

Technical Director  
Dr. Mirza M. Hussain

Date: April 25, 2006

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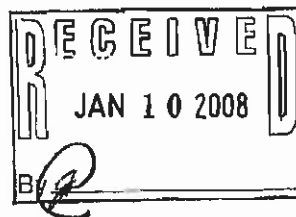
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**APPENDIX 10**  
Post-Excavation Soil Sample  
Laboratory Results - November 2007



Friday, January 04, 2008

Attn: Mr Joe Shearn  
Environmental Products &  
Services Of Vermont  
40 Hamilton Lane  
Glenmont, NY 12077

RECEIVED JAN 07 2008

Client ID:  
Sample ID#s: AJ86663

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller  
Laboratory Director

CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
NY Lab Registration #11301  
RI Lab Registration #63  
NH Lab Registration #213693-A,B  
ME Lab Registration #CT-007  
NJ Lab Registration #CT-003  
PA Lab Registration #68-03530



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

January 04, 2008

FOR: Attn: Mr Joe Shearn  
Environmental Products &  
Services Of Vermont  
40 Hamilton Lane  
Glenmont, NY 12077

### Sample Information

Matrix: SOIL  
Location Code: EP&S-VT  
Rush Request:  
P.O.#: W2025

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

### Date

12/28/07 0:00  
12/31/07 10:00

### Time

## Laboratory Data

SDG I.D.: GAJ86663  
Phoenix I.D.: AJ86663

Client ID: RT. 9W STONY PT.

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	90		%	12/31/07		X/EG	E160.3
<b><u>TPH by GC - EPA 8015 Modified</u></b>							
Aviation Fuel/ Kerosene	ND	10.0	mg/kg	01/02/08		JRB	EPA 8015MOD 1
Fuel Oil #2/ Diesel	ND	10.0	mg/kg	01/02/08		JRB	EPA 8015MOD 1
Gasoline	ND	10.0	mg/kg	01/02/08		JRB	EPA 8015MOD 1
Unidentified	ND	10.0	mg/kg	01/02/08		JRB	EPA 8015MOD 1

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters.

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
ND=Not detected BDL=Below Detection Limit RL=Reporting Limit

Phyllis Shiller, Laboratory Director  
January 04, 2008



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823



## **NY Temperature Narration**

**January 04, 2008**

**SDG I.D.: GAJ86663**

---

The samples in this delivery group were received at 6C.  
(Note acceptance criteria is above freezing up to 6C)



Environmental Laboratories, Inc.

# CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Email: [service@phoenixlab.com](mailto:service@phoenixlab.com) Fax: (860) 645-0823

Client Services (860) 645-8728

Temp Pg / of /

Data Delivery (electronic):

☐ Fax # \_\_\_\_\_  
☐ Email: \_\_\_\_\_

Format: ☐ Excel ☐ PDF ☐ GIS Key

Customer: Environmental Products and Services, Inc.  
Address: 572 Route 203  
Danbury, CT 06812

Project: TPH APL  
Report to: Team Butler  
Invoice to: Environmental Products and Services, Inc.

Project P.O.: 102025  
Phone #: 203 378 8817  
Fax #: 203 378 8816

Sampler's Signature

*[Signature]*

Date: 12/15/07

Analyses Request

Matrix Code: DM-drinking water WW-wastewater S-soil/solid O-Oil  
GW-groundwater SL-sediment A-air X-Other

1

Phoenix Sample #

Customer Sample Identification

Sample Matrix

Date Sampled

Time Sampled

86663

5-01

S

12/15/07

1:00

TPH  
2015 GRD  
Soil VOA Vial / methanol / Soil Bacteria  
GL Soil container / or  
40 ml VOA Vial / As to / HCl  
GL Amber 1000ml / As to / H2SO4  
PL As to / 250ml / 500ml / 1000ml  
PL H2SO4 / 250ml / 500ml  
PL HNO3 250ml  
PL NaOH 250ml  
Bacteria Bottle

Requisitioned by:

Accepted by:

Date:

Time:

*[Signature]*

12-31-07

10:00

Turnaround:

☐ 1 Day  
☐ 2 Days  
☐ 3 Days  
☒ Standard  
☐ Other

\* Surcharge Applies

Requirements for CTRI

☐ Res. Criteria  
☐ GW Protection  
☐ GA Mobility  
☐ GB Mobility  
☐ SW Protection  
☐ Res. Vol.  
☐ Ind. Vol.  
☐ RCP Certification

Requirements for MA

☐ GW-1  
☐ GW-2  
☐ GW-3  
☐ S-1  
☐ S-2  
☐ S-3  
☐ MCP Certification  
☐ Other

Comments, Special Requirements or Regulations: