DECOMMISSIONING AND DEMOLITION REPORT BUFFALO FORGE FACILITY

490 BROADWAY STREET BUFFALO, NEW YORK

Prepared for
Howden Buffalo Inc.
September 14, 2007

Prepared by

BROWN AND CALDWELL
ASSOCIATES
990 Hammond Drive, Suite 400
Atlanta, Georgia 30328

scan —

990 Hammond Drive
Suite 400
Atlanta, GA 30328

Tel: (770) 394-2997
Fax: (770) 396-9495

BROWN AND CALDWELL

September 14, 2007

Mr. Neil C. Schemm
Vice President / General Counsel
Anderson Group, Inc.
15 Piedmont Center, Suite l-120
3575 Piedmont Road
Atlanta, Georgia 30305-1549

16-131303-200

Subject: Former Buffalo Forge Facility
490 Broadway Street, Buffalo, New York
Demolition Closure Report

Dear Mr. Schemm:

This letter transmits a final copy of the Decommissioning and Demolition Report for the former Buffalo Forge facility in Buffalo, New York. The report was prepared by BC, and has been certified by me as the engineer-of-record for the project. Copies have been distributed to regulatory agencies and other parties as indicated below.

Please call me at (770) 673-3652 if you have any questions regarding the report.

Very truly yours,

BROWN AND CALDWELL ASSOCIATES

Robert J. Rivera, P.E.
Supervising Engineer

RJR:ehs

cc: D. Donald, Howden (1 copy)
Martin Doster, P.E., NYSDEC Region 9 (2 copies)
J. Haklar, Ph.D., P.E., USEPA Region II (1 copy)
Dennis Sutton, City of Buffalo (2 copies)

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1.0 INTRODUCTION

This report (Report) has been prepared by Brown and Caldwell Associates (BC) on behalf of Howden Buffalo Inc. (Howden), to document the decommissioning, demolition, and remedial work that was conducted at the former Buffalo Forge facility located at 490 Broadway Street, Buffalo, New York from September 2005 through May 2007. Part of the work included a self-implementing cleanup of polychlorinated biphenyls (PCBs) contained in site media, in accordance with federal regulations at 40 CFR 761.61(a)(3) under the Toxic Substances Control Act (TSCA).

A PCB Cleanup Plan (Cleanup Plan) was prepared by BC, and was reviewed and approved by the United States Environmental Protection Agency's (USEPA) Region II Pesticides and Toxic Substances Branch. The Cleanup Plan consisted of the following separate documents:

- *"PCB Cleanup Plan"* (April 2006)
- Letter Addendum (May 22, 2006)
- Letter Addendum for sampling of building slabs (October 11, 2006)
- *"PCB Cleanup Plan for Soil and Concrete"* (November 14, 2006; revised December 6, 2006).

The remedial scope described in the Cleanup Plan involved portions of the following key project tasks: building decommissioning, building demolition, remediation of soil beneath the building foundation, and transport and disposal of waste materials. While necessary permits were obtained for the work and applicable regulations were followed during the performance of the work, the Cleanup Plan was the only project-specific, agency-approved document that governed work at the site. As such, the manner in which the Cleanup Plan was implemented is an important consideration of this Report.

This Report is organized into eight sections with appendices. Elements of the Cleanup Plan are addressed in each appropriate section of the Report, rather than presenting all of the Plan as a stand-alone section. Section 2.0 of this Report presents a general description of the project and facility. Section 3.0 presents a detailed description of the pre-demolition site characterization activities. Section 4.0 describes the building decommissioning activities, while Section 5.0 describes the building demolition activities. Section 6.0 presents the soil remediation that was conducted at the site. Section 7.0 summarizes the waste disposal activities, while Section 8.0 presents a signed certification by the BC engineer-of-record.

2.0 PROJECT BACKGROUND

2.1 Site Background

The site is located at 490 Broadway Street, Buffalo, New York. Most of the site is located between Broadway Street to the south, Spring Street to the west, Sycamore Street to the north, and Mortimer Street to the east. Other parcels of land owned by Howden are situated east of Mortimer Street. A public playground located between the site and the Broadway/Spring Street intersection (to the southwest) is not part of the site. Howden Buffalo Inc. is the current property owner.

2.2 Facility Background and History

The facility began operations as Buffalo Forge in 1877. Buffalo Forge originally manufactured small forges, and then ceased those activities circa 1900 and evolved into an industrial fan manufacturing plant. From about 1878 until 1986, the facility also operated a foundry in which brass, cast iron, and aluminum were cast. Figure 2-1 presents in a plan view the use of each building comprising the facility prior to demolition, and Table 2-1 presents a history of the facility construction, as well as the size of each building.

The final built-out facility footprint totaled approximately 300,600 square feet, and contained approximately 550,000 square feet of built-out space. The facility was comprised of multiple buildings that were joined together structurally, and included offices, a foundry, a boiler room, manufacturing and machining areas, storage areas, and a power distribution room referred to as the "capacitor room." A small maintenance garage (Building 14) was located on the east side of Mortimer Street.

The oldest structures (Building Nos. 1, 2, and 3) are referred to as the "Office Buildings." Those buildings were primarily of timber and brick construction. The remainder of the facility, referred to as the "Factory Areas," was constructed of brick and timber with a steel superstructure and experienced additions through 1966.

The facility was closed in the late 1990s. Most of the manufacturing equipment and materials were removed upon closure and the facility remained closed and locked thereafter. By the early 2000s, the facility buildings had fallen into a state of disrepair. By 2004, the deteriorating building conditions and presence of asbestos-containing materials (ACM) inside the buildings gained increased attention from the City of Buffalo, the New York State Department of Labor (NYSDOL) and the federal Occupational Safety and Health Administration (OSHA). After careful evaluation of options for ongoing management of the closed facility, Howden elected in early 2005 to pursue the complete demolition of the facility.

3.0 BUILDING CHARACTERIZATION

To properly plan the demolition, a comprehensive building characterization was performed by BC in late 2005 and early 2006. The characterization consisted of a facility walkthrough, an environmental building survey, and asbestos assessment activities within the facility.

The walkthrough and building survey were conducted in October and November 2005. An asbestos survey was conducted in December 2005, and additional asbestos assessment of the facility roof was performed in April 2006. The work was conducted according to the BC "Health and Safety Plan for Building Walkthrough, Characterization, and Demolition," dated September 2005 and revised as necessary thereafter.

3.1 Facility Walkthrough

The objectives of the facility walkthrough were to 1) assess the condition of the facility so that the sampling logistics and areas considered unsafe for entry could be determined prior to collection of any environmental samples; 2) identify materials and areas within the facility that should be evaluated for polychlorinated biphenyls (PCBs) and Resource Conservation and Recovery Act (RCRA) constituents; 3) to determine the approximate numbers and types of samples appropriate for the building survey; 4) make a general assessment of the structural integrity and safety conditions of the building; and 5) make a general assessment about the presence of potential asbestos-containing material throughout the facility. Utility services to the facility had previously been discontinued, so the walkthrough was conducted with portable personal lighting.

During the walkthrough, it was observed that most of the first floor of the facility was a concrete slab. The first floors of Building Nos. 6, 7, 11, 12, 21, 22, and 25 contained areas of wood blocks laid on beds of sand with a concrete slab sub-base. Figure 3-1 shows these areas. The wood block and sand areas were oil-stained as were some of the concrete floor areas. The capacitor room was observed to be constructed with concrete floors, concrete walls, and a concrete ceiling.

The second level of the Factory areas consisted primarily of wooden floor decking, and appeared to be used mostly for light operations including warehousing and offices. In buildings that were comprised of higher floor levels, those higher levels (see Table 2-1) appeared to be used for storage and offices.

The roof was leaking throughout the facility and precipitation was also entering the facility through broken windows and clerestories. The leaking was observed in many areas of the facility but especially in older portions which had wooden roof decking, including "saw tooth" roof sections over Building Nos. 4, 5, 6, 7, and 12.

On the upper levels of the factory buildings, leaking of the sawtooth roofs had caused the second-floor wood decking to buckle, and in some areas to rot through. In a few areas, the second floor wood decking had fallen onto the first floor level. These areas were relatively small and were avoided during subsequent characterization activities. Because the second floor was compromised in certain areas, characterization was limited to areas where the wood decking was not buckled or where areas could be sampled from a safe adjacent platform, such as the top of a stairway or from a steel floor plate.

During the walkthrough, an inventory of the sumps, trenches, and basements was performed. Two basements were identified, located beneath Building Nos. 1 and 3.

3.2 Environmental Building Survey

The objectives of the building survey were to 1) identify disposal options for the demolition debris; 2) identify areas that potentially required remediation or special handling as part of the facility demolition; and 3) identify concrete slab areas that would potentially require remediation if the slab were to remain in place following the demolition. The objectives did not include any characterization of site soil and ground water.

3.2.1 Sampling Approach

The environmental building survey was necessary to generate information about the potential environmental issues that would need to be considered as part of the demolition planning. The building survey included an assessment of the possible presence of hazardous waste chemical constituents regulated under RCRA, as well as PCBs regulated under TSCA.

Targeted sampling areas were selected based on visual observations and historic uses (as determined through records review and interviews with current and former employees). Sampling methods were selected based on the type (e.g., concrete, steel, wood blocks) and characteristics (e.g., pervious, impervious) of the materials being sampled. At the time the building survey was conducted, the presence of PCBs was not anticipated in any areas other than the capacitor room based on the historic operations within the facility.

3.2.2 Targeted Sampling Areas

The materials and areas identified as candidates for sampling were predominantly on the first level of the facility, except for the wood floor decking, which was mostly on level 2 and above. Materials and areas tested for PCBs and RCRA hazardous constituents included:

- concrete floor slab (primarily level 1)
- sand bedding beneath the wood block flooring (level 1)
- wood block flooring (level 1)
- wood floor decking (primarily level 2)
- sediment and miscellaneous solids on the floor (primarily level 1)
- liquids in sumps, trenches, and basement areas (level 1 and basements)
- metal equipment and structures (wipe samples as identified).

Figures 3-2 through 3-8 show the sample locations corresponding to the areas identified above. With the exception of the capacitor room, the walls and ceilings of the facility were not considered likely locations for PCBs based on historical operations and visual observations during the facility walkthrough. This assessment was used to justify the various sampling grids that were implemented during the survey.

3.2.3 Types of Samples

The types of samples selected for the survey were as follows:

- Shallow penetration samples of pervious surfaces including concrete slab, wood block floor, and wood floor decking. Shallow penetration samples were collected to a depth of approximately 0.5 inch using 0.75- or 1.00-inch-diameter drill bits. The concrete slab samples and wood floor decking samples were analyzed for PCBs only.
- Miscellaneous solids samples of sand bedding and other loose floor sediment and material.
- Miscellaneous liquid samples from sumps, trenches, and basement areas.

- Wipe samples of impervious metal equipment and structures. The wipe samples were collected from a 100-sq-cm area on a targeted surface using hexane-wetted sterile filter pads and 10-cm by 10-cm wipe templates. These samples were analyzed for PCBs only.

3.2.4 Sampling Methodology

The numbers and types of samples collected for laboratory analysis are shown in Table 3-1. Based on historic activity and the facility walkthrough, the survey samples were focused on the first level of the facility with over 80 percent of the samples collected from this level.

The miscellaneous samples were collected as grab samples. The samples were collected and analyzed as discrete samples except for the sand bedding and wood block floor samples, which included both discrete and composite samples. Composite samples were used for the sand bedding and wood block floor areas since it was known that those materials would be removed, transported and disposed in bulk at appropriate disposal facilities.

On the first level of the facility a grid sampling layout was used to locate floor samples of concrete slab, wood block floor, and sand bedding. This method was chosen because most areas could be accessed safely by the sampling personnel. This grid approach provided a systematic check to see if PCBs or other regulated constituents were present in the general work areas of the facility. The grid was laid out using a triangular 75-foot separation which corresponded to 61 locations in the factory areas. Samples were not collected in Building Nos. 1, 2, and 3 since these areas were historically used as offices.

At the grid locations where concrete slab was present, a shallow penetration sample was collected of the concrete. Also, when wood block floor and/or sand bedding were present at a grid location, samples of those materials were also collected.

Other solid samples were collected based on observed petroleum-like staining or where electrical equipment was known or suspected to have existed. This included samples collected within the capacitor room, wood floor decking primarily on the upper levels, and miscellaneous solid samples on level 1.

A representative number of the sumps and trenches were selected for collection of miscellaneous liquid samples. Approximately half of the sumps and trenches were sampled in an effort to obtain representative samples of liquids. Both facility basements were sampled since the volume of water in each location was significant as compared to the relatively low volumes in the sump and trench locations.

Wipe samples were collected on structural elements and remaining equipment at representative locations where petroleum-like staining was present, or where electrical equipment was known or suspected to have existed.

The samples were packaged and sent to Columbia Analytical Services, Inc. (CAS) of Rochester, New York for analysis. CAS is a New York State certified laboratory and was a subcontractor to BC on this project. Sample results are summarized in the next subsection.

3.2.5 Sample Analytical Results

The sample results for the solid samples, liquid samples, and wipe samples are presented in this subsection. Table 3-1 is a summary of the selected analyses for each sample that was collected.

Tables 3-2 through 3-7 present the sample analytical results obtained during the building survey. The tables are grouped by the class of chemical constituents. The laboratory reports were previously submitted under separate cover. Sampling locations are shown on Figures 3-2 through 3-8. The figures also show the groupings of locations where discrete samples were combined into composite samples for laboratory analysis.

Solid Sample Results

The majority of the PCB results for the solid materials were below the method detection limit. In general, most of the building materials did not contain PCBs or other chemical constituents of concern at concentrations that required management as RCRA hazardous waste or as TSCA PCB waste. However, PCBs were present at concentrations in Building Nos. 2, 6, 7, 12, 22, 27 and in the capacitor room that exceeded the TSCA Unrestricted Use threshold of 1 mg/kg in solid materials.

Portions of Building Nos. 11 and 21 contained solid materials that exceeded the RCRA TCLP hazardous waste threshold of 1 mg/L for cadmium. Waste material solids removed from these areas required management as RCRA toxicity characteristic hazardous wastes for cadmium.

In the capacitor room, PCB concentrations in the concrete and solids samples ranged from non-detect to 90 mg/kg. One concrete sample collected on level 2 on the top of the capacitor room had a PCB result of 15.8 mg/kg. In Building 12, one floor sediment sample contained a PCB concentration of 140 mg/kg. Waste materials from the capacitor room and in some areas of Building 12 required disposal at a TSCA-permitted disposal facility because these materials contained PCB concentrations greater than 50 mg/kg.

Liquid Sample Results

Figure 3-6 shows the locations of the liquid samples corresponding to the data presented in the data tables. PCBs were not detected in any liquid samples except for AQ-012 (0.0025 mg/L) and AQ-014 (21 mg/L). Liquid sample AQ-014 was collected in the Building No. 12 area. Several aqueous samples exhibited elevated concentrations of Diesel-Range Organics and phenolics.

Wipe Sample PCB Results

Figure 3-8 and Table 3-5 present the wipe sample locations and PCB wipe analytical results, respectively. Two of the wipe sample results plus a duplicate sample exceeded 10 µg/100 sq cm, and both samples were collected from metal surfaces in the capacitor room. Three of the other wipe samples had detectable PCBs: one sample was collected from metal in the capacitor room and two samples were collected from metal surfaces in the Building No. 12 area. These results were consistent with the solid sample results from these two areas.

3.3 Asbestos Assessment

Prior to the building walkthrough, BC was in possession of an asbestos survey that had been conducted at the facility in 1998. Due to the age of the 1998 survey, a revised asbestos survey was required by law. The revised survey was conducted in December 2005 by Hygienetics Environmental Services (Hygienetics) as a subconsultant to BC. The revised asbestos survey identified asbestos containing material (ACM) throughout the facility, including loose ACM on scattered areas of the facility floor.

A subsequent asbestos survey of the roofing materials was conducted by Hygienetics in April 2006 when site weather improved and the roofs could be accessed safely. The roof survey identified ACM throughout most of the roofing materials.

3.4 Building Characterization Findings

The required aspects of the building decommissioning and demolition that were to follow were identified and/or verified based on the results of the building characterization. The following general findings resulted from the building characterization:

- The majority of the building structure did not contain concentrations of regulated substances that would require classification of waste materials as RCRA hazardous waste.
- Portions of the loose floor material and concrete floor in Building Nos. 11 and 21 would require removal and disposal as RCRA hazardous waste for the RCRA toxicity characteristic of cadmium. Refer to Figure 3-9.
- Decommissioning of the facility prior to demolition would be required, as described in Section 4.0.

3.5 PCB-Related Building Characterization Findings

In addition to the findings in Section 3.4, the following requirements were identified based on the results from the building characterization with respect to PCBs and the USEPA-approved Cleanup Plan:

- The majority of the facility did not contain concentrations of PCBs that would require classification of debris and waste materials as TSCA PCB waste (PCBs > 50 mg/kg) nor disposal of the waste at a TSCA-permitted disposal facility.
- PCBs were detected in isolated areas of the facility, most notably in the capacitor room and Building No. 12. These areas would require a self-implementing TSCA PCB cleanup, in accordance with 40 CFR 761.61(a)(4 – 6) and the Cleanup Plan.
- Some equipment and materials would require removal and disposal at a TSCA-permitted disposal facility. These consisted of 1) all contents of the capacitor room, and the capacitor room floor, walls, and ceiling; and 2) the loose floor material and concrete floor in the northern half of Building No. 12. Refer to Figure 3-9. The loose materials were subsequently removed during the pre-demolition decommissioning.

4.0 BUILDING DECOMMISSIONING

Based on the results of the building characterization described in Section 3.0, a decommissioning scope was developed by Howden and BC. Howden hired Sevenson Environmental Services (Sevenson) to conduct the decommissioning and demolition of the facility. From May 30, 2006 through July 11, 2006, Sevenson completed the building decommissioning activities, with BC personnel present at the site. The decommissioning included the following tasks:

- Removal of loose asbestos debris on the floors
- Cordoning off of the TSCA PCB cleanup areas (capacitor room and Building 12), and cordoning off of the RCRA hazardous waste areas (portions of Building Nos. 11 and 21). Refer to Figure 3-9. These areas were not accessed except as necessary to conduct the cleanup work.
- Removal of wood block flooring and sand bedding beneath the wood block flooring
- Removal of miscellaneous debris, equipment, solid residuals and non-aqueous phase liquids from the concrete slab
- Sweeping of the floor slabs to broom-clean condition
- Surface cleaning of the walls and ceiling of the capacitor room
- Removal of lighting ballasts, fluorescent light bulbs, and mercury-containing lamps
- Lab packing of miscellaneous drums of waste
- Removal of a few animal carcasses that were present in the buildings
- Rodent baiting by a Buffalo-licensed exterminator
- Removal of liquids and residuals from trenches and sumps
- Collection of washwaters generated during the decommissioning work
- Covering of open sumps and pits with road plates
- Removal of water from the basements.

Solid materials generated during the decommissioning were staged, characterized for disposal, and transported and disposed off site at appropriate disposal facilities. Water in the basements was sampled, characterized, filtered, and discharged to the municipal sanitary sewer system. Other liquids unsuitable for treatment and discharge to the sanitary sewer system were containerized and disposed off-site. Disposal of the decommissioning wastes is summarized in Section 7.0.

Materials generated from within the TSCA PCB areas were properly segregated prior to disposal, and disposed at a TSCA-permitted disposal facility. Materials generated from within the RCRA hazardous waste areas were properly segregated prior to disposal, and disposed at a RCRA Subtitle C-permitted facility as RCRA D006 hazardous waste (toxicity characteristic for cadmium). Following decommissioning, the slabs of the capacitor room and Building 12 were covered with multiple layers of polyethylene sheeting prior to any demolition activities to isolate any remaining PCBs in the concrete during the subsequent demolition activities.

5.0 BUILDING DEMOLITION

Building demolition activities began on July 11, 2006 and continued until mid November 2006. Concrete slab and foundation removal occurred from early November 2006 into March 2007. From July 17, 2006 through November 14, 2006, BC personnel were not on site, and Howden retained Safe Measures of Atlanta, Georgia to provide construction quality assurance during the above-grade demolition and initial slab removal activities. Information presented in Sections 5.2 through 5.4 is based on information provided to BC by other parties unless noted otherwise.

5.1 Asbestos Removal Approach

ACM present on the floor of the facility was removed during decommissioning activities. Prior to demolition, Howden determined that the intact ACM present throughout the facility could not be safely removed due to the deteriorated structural conditions on the factory mezzanines, upper floors and roof. Therefore, the remaining ACM was not abated during the building decommissioning phase.

Howden elected to demolish the facility under Applicable Variance AV-106 for "Asbestos Demolition of Condemned Buildings and Structures," issued by the New York State Department of Labor (NYSDOL). Under AV-106, the facility was allowed to be demolished with the ACM intact. Refer to Section 5.3 for additional details.

5.2 Final Pre-Demolition Activities

Prior to active demolition, Sevenson performed several tasks that were required as conditions of the demolition permit issued by the City of Buffalo. Utilities to the facility were disconnected, including electrical power, natural gas, and telephone service. Thirteen water service lines, two gas service lines and five sanitary sewer lines were disconnected and plumb cut at locations shown on Figure 5-4. A sidewalk survey was performed to document pre-demolition sidewalk conditions.

5.3 AV-106 Above-Grade Building Demolition

From July 11, 2006 to November 2006, the above-grade portion of the facility was demolished under AV-106. The majority of the demolition debris was disposed off-site at an asbestos-permitted disposal facility, while some debris required disposal at a TSCA-permitted disposal facility identified in Section 7.0. Some brick debris was decontaminated by Sevenson to remove ACM in accordance with AV-106, and recycled off-site.

During demolition, the generated debris and active work areas were kept wet with water delivered from fogger nozzles attached to hydrant water connections. Howden retained the services of an independent third-party air monitoring firm, Sienna Environmental Technologies, to conduct asbestos air monitoring required in the AV-106 variance. Air monitoring was conducted on a daily basis, and final air clearance sampling was conducted as prescribed in New York State Industrial Code Rule (ICR) 56-17. As demolition progressed across the site, completed work areas were sequentially cleared from asbestos management requirements by performing final air clearance sampling and obtaining successful results.

Structural steel and other salvageable steel were segregated from the demolition debris, and power washed to remove any potential ACM. The salvageable steel was recycled at a local recycling facility.

The Cleanup Plan required the capacitor room walls and concrete slab, and the concrete slab in the northern half of Building 12, to be disposed at a TSCA-permitted disposal facility. Howden proposed this conservative approach (based on known PCB concentrations in these areas) to avoid a protracted sampling effort that could have delayed the demolition activities. These areas were decontaminated to remove ACM, demolished and segregated from other debris, and disposed off-site at a TSCA-permitted disposal facility.

The concrete slab in Building Nos. 1, 2, 4, 8, 21, 28, and in the southern portion of Building 12 consisted of either very thin concrete (i.e., less than 2 inches thick) or of unreinforced concrete. The concrete in these buildings reportedly did not have sufficient structural integrity, and crumbled during the above-grade demolition activities. The crumbled concrete in these buildings could not be feasibly decontaminated to remove ACM, and was disposed with the general demolition debris at the ACM-permitted disposal facility. The removal of the intact slab areas and the building foundations is discussed in the next subsection.

5.4 Concrete Slab and Foundation Removal

A project objective was to maximize concrete recycling and minimize concrete disposal. Recycling of concrete was addressed in the Cleanup Plan. USEPA allowed the concrete to be recycled only if it did not contain concentrations of PCBs greater than 1 mg/kg (the "Unrestricted Use" threshold in the TSCA PCB cleanup regulations). USEPA dictated this approach to ensure that the recycled concrete would be suitable for use in any off-site environmental setting since Howden would not have control over its use once the concrete was transported off of the site. USEPA also agreed that each building could be addressed as a separate "area of concern."

The Cleanup Plan also required that if historical PCB concentrations in a concrete sample exceeded 1 mg/kg, the concrete in that area could not be recycled, regardless of what subsequent concrete sample analyses might indicate. Therefore, the concrete samples collected in fall 2005 (refer to Figure 3-2) were included in the recycling/disposal screening determinations.

USEPA concurred that of the remaining concrete slabs, the slabs from Building Nos. 9, 10, 11, 13, 23, and 25 had already been sufficiently characterized, did not contain PCB concentrations greater than 1 mg/kg, and could be recycled without additional characterization subject to Howden's compliance with state and local requirements. After the concrete from these areas was removed and stockpiled, composite samples of the stockpiled concrete were collected and analyzed for final screening. The final screening samples were collected at a frequency of one sample per 500 cubic yards and were analyzed for PCBs and total metals as dictated by the recycling facility and/or by other regulatory agencies. Analytical results confirmed that the concrete could be recycled.

The Cleanup Plan required additional concrete sampling and analyses in Building Nos. 3, 5, 6, 7, 12, 14, 18, 22, and 27 to properly characterize the concrete for disposal and recycling determinations. This additional characterization activity and the subsequent concrete removal work are described in Section 5.4.1.

5.4.1 Additional Concrete Characterization and Management

In fall 2006 concrete samples were collected from Building Nos. 3, 5, 14, and 18, which were not known to be impacted with PCBs from the 2005 sampling event, but also had not been sufficiently characterized to date. Concrete samples were also collected from Building Nos. 6, 7, 12, 22, and 27, which contained previous samples with PCB concentrations above USEPA's Unrestricted Use threshold of 1 mg/kg and required further characterization, for recycling/disposal determinations.

Figure 5-1 shows the initial locations of the fall 2006 concrete samples and the analytical results from the samples. These samples were collected by Sevenson, except for the Building 14 samples which were collected by BC at the point in time when BC returned to the site. Some slab areas discussed in Section 5.4 had already

been removed when BC returned to the site. All of the 2006 concrete samples were analyzed by CAS, Rochester, New York.

Building Nos. 14 and 18

Sample analyses from Building Nos. 14 and 18 indicated that these slabs did not contain PCB concentrations above the limit of 1 mg/kg. The concrete was removed and stockpiled, and additional composite samples of the stockpiled concrete were collected for further final screening. The final screening samples were collected by Sevenson at a frequency of one sample per 500 cubic yards and analyzed for PCBs and total metals as dictated by the recycling facility and by other regulatory agencies. Analytical results confirmed that the concrete could be recycled, and the concrete was transported to an off-site concrete recycler.

Building Nos. 6, 7, and 27

In the fall 2005 sampling event, Building Nos. 6, 7, and 27 each contained at least one concrete slab sample with PCB concentrations above USEPA's unrestricted use threshold of 1 mg/kg. October 2006 sample analyses from Building Nos. 6, 7, and 27 did not contain PCB concentrations above the limit of 1 mg/kg.

Due to the discrepancies between sampling events, the concrete at the locations of the fall 2005 samples required disposal rather than being recycled. The initial limits of concrete disposal in these buildings were defined as a 20-foot by 20-foot square surrounding each location of elevated PCB concentrations. One sample was then collected by BC from each face of the concrete square as shown on Figure 5-2, and analyzed by CAS. The concrete disposal areas were extended in 10-foot increments until a concrete sample was obtained with a PCB concentration less than 1 mg/kg on each face, or until the horizontal limit of that building was encountered. The final area of concrete defined in this manner was removed and disposed at a permitted disposal facility. The concrete located outside the defined areas in each building was allowed to be recycled. Final limits of disposed and recycled concrete are shown on Figure 5-3.

Building Nos. 3, 5, 12, and 22

In the fall 2005 sampling event, Building Nos. 12 and 22 each contained at least one concrete sample with PCB concentrations above USEPA's unrestricted use threshold of 1 mg/kg. October 2006 sample analyses from Building Nos. 12 and 22 also contained concentrations of PCBs above 1 mg/kg. October 2006 sample analyses from Building Nos. 3 and 5 contained PCB concentrations above 1 mg/kg. Howden elected to dispose of the concrete from these buildings at a permitted disposal facility without further sample analyses and without additional recycling consideration.

All of the sub-slab concrete foundation elements (e.g. column footers, grade beams) were removed and disposed in the same manner and classification as the concrete slabs above them. Information pertaining to the recycling and disposal facilities and quantities is contained in Section 7.0. The fall 2006 concrete analytical reports are contained on a CD in Appendix D.

6.0 SOIL REMEDIATION

This section describes the various soil remediation activities that occurred after the concrete slabs and foundations were removed. Remediation activities addressed PCB-impacted soil, underground storage tanks, black sandy material that was spread throughout the site, and two miscellaneous areas where visually-impacted soil was encountered during foundation removals.

6.1 PCB Soil Remediation

In site areas where the concrete slab contained PCB concentrations greater than 1 mg/kg, USEPA required that the soil beneath the slabs be sampled and analyzed for PCBs to determine whether PCBs possibly affected the underlying soil. Soil sampling was also performed in a few discrete locations where sump or pit samples contained elevated PCB concentrations. The soil sampling strategy and remediation approach described in this Section was approved in the Cleanup Plan.

Initial soil samples were collected by BC and analyzed by CAS, Rochester, New York. Figure 6-1 presents the locations and analytical results of the initial soil screening samples. The initial results indicated that:

- Soils beneath Building Nos. 2, 3, 5, 7, and 22 did not contain PCB concentrations above 1 mg/kg.
- Soils containing PCB concentrations greater than 1 mg/kg were present throughout the capacitor room and approximately half of Building 12, and at isolated sample locations in Building Nos. 6, 12, and 27.
- Soil samples from two locations in the capacitor room and one location in Building 12 contained PCB concentrations greater than 50 mg/kg.

The site setting, access considerations, and Howden's planned post-demolition use of the site were evaluated to determine an appropriate path forward. Howden elected to perform a PCB soil cleanup in the impacted areas described above to meet a High Occupancy exposure scenario without further conditions or restrictions, as described in 40 CFR 761.61(a)(4)(i)(A). Accordingly, a cleanup level of PCBs less than or equal to 1 mg/kg in site soils was the appropriate cleanup level for the site. Howden subsequently removed all PCB-impacted soil via excavation and off-site disposal by proceeding with a self-implementing soil remediation in accordance with the Cleanup Plan.

6.1.1 Initial Delineation of PCB Soil Excavations

Based on the prescribed remediation approach, the initial limits of remediation to address PCB-impacted soils are shown on Figure 6-1. The initial excavation areas extended half the distance between PCB-impacted and non-PCB-impacted soil samples. The excavation area boundaries were also limited initially by each building's footprint. Where isolated sample locations required soil remediation, the initial excavation extended 5 feet in each direction from the isolated sample, forming a 10-foot by 10-foot excavation area. The initial excavation area around sample 12GSF12 in Building 12 extended 10 feet in each direction from the isolated sample, forming a 20-foot by 20-foot excavation area. The following sections (6.1.1 through 6.1.5) describe the PCB soil remediation efforts.

6.1.2 Round 1 PCB Soil Remediation

Soil was initially excavated to a depth of 1 foot in the areas shown on Figure 6-1. An area in Building 12 and an area in the capacitor room both contained PCB concentrations above 50 mg/kg, so these areas were

excavated first. These soils were transported to a TSCA-permitted disposal facility – refer to Section 7.0. Confirmatory samples were collected by BC from the excavation sides and bottom to determine whether any additional soil required removal and disposal at a TSCA-permitted disposal facility. The confirmatory samples were analyzed by CAS, and indicated that no additional TSCA PCB removal and disposal was required.

The remaining areas shown on Figure 6-1 were then excavated. Soil from these areas was disposed at a RCRA Subtitle D disposal facility. Refer to Section 7.0. Confirmatory samples were collected by BC from soil on the sides and bottom of the excavation areas in accordance with the Cleanup Plan, and analyzed by CAS.

Figure 6-2 shows the initial (Round 1) excavation limits, and the locations and concentrations of the post-excavation confirmatory soil samples. Figure 6-3 is a similar figure enlarged to show the capacitor room with better clarity. Confirmatory soil sample analyses indicated that:

- Soils in two isolated excavation areas each in Building Nos. 6 and 27 met the cleanup goal and did not require additional remediation.
- Soil in one isolated excavation area each in Building Nos. 6 and 27 had one or more confirmatory samples in excess of the cleanup goal, so the excavation was extended in these areas.
- Soil in the majority of the capacitor room met the cleanup goal, but soil in the eastern corner did not and required additional remediation.
- Remediation results in Building 12 were inconsistent, with several soil samples meeting the cleanup goal, but a majority of the soil in the large area exceeding the cleanup goal.

Excavation limits were extended as necessary for the second round of remediation, as discussed below.

6.1.3 Round 2 PCB Soil Remediation

Where the Round 1 side-wall confirmatory soil samples contained PCB concentrations greater than 1 mg/kg, the face of the excavation was extended in the same direction an additional 10 feet. Similarly, where the Round 1 bottom confirmatory soil samples contained PCB concentrations greater than 1 mg/kg, the excavation was extended vertically another foot in the sub-area addressed by that bottom soil sample. Soil in the appropriate area of the capacitor room was excavated an additional two vertical feet after Round 1, rather than an additional 1 foot as in the other remediation areas.

Excavated soil was disposed at a RCRA Subtitle D disposal facility. Confirmatory samples were collected by BC again from the sides and bottom of the excavation areas. BC elected to switch labs at this point in the project, due to analytical turnaround time considerations. The soil analyses were conducted by Accutest Labs, Marlborough, Massachusetts.

Figure 6-4 shows the Round 2 excavation areas, and the locations and concentrations of the post-excavation confirmatory soil samples. Figure 6-5 is a similar figure enlarged to show the capacitor room with better clarity. Confirmatory sample analyses indicated that:

- The soil in the remaining excavation areas in the capacitor room and in Building Nos. 6 and 27 met the cleanup goal and did not require additional remediation.
- Remediation results in Building 12 indicated that some soil impacted above the clean-up goal was still present in the central area of the excavation (bottom samples) and at the southern edge in one side-wall sample. The southern edge of the excavation was subsequently extended horizontally an additional 10 feet prior to Round 3 excavation activities, to capture the impacted soil indicated by the Round 2 side-wall sample as being above the cleanup goal.

Remediation limits were then extended vertically for a third round of remediation in Building 12, as discussed below.

6.1.4 Round 3 PCB Soil Remediation

Where the Round 2 bottom confirmatory samples in Building 12 contained PCB concentrations greater than 1 mg/kg, the excavation was extended vertically an additional foot in the area addressed by the Round 2 soil sample. Excavated soil was disposed at a RCRA Subtitle D disposal facility. Confirmatory samples were collected by BC again from the sides and bottom of the excavation areas, and analyzed by Accutest. Figure 6-6 shows the Round 3 excavation area, and the locations and concentrations of the post-excavation confirmatory soil samples. Confirmatory sample analyses indicated that:

- A portion of the soil in the bottom of the excavation area met the cleanup goal and did not require additional remediation.
- A portion of the soil in the bottom of the excavation area exceeded the cleanup goal, requiring additional remediation.

Remediation limits were again extended vertically for a fourth round of remediation in Building 12, as discussed below.

6.1.5 Round 4 PCB Soil Remediation

When excavation had progressed to three feet below grade (end of Round 3), fractured bedrock was encountered. Howden elected to scrape the fractured rock and residual soil in an attempt to meet the remedial goal. In the fourth round of PCB soil remediation, the remediation limits were extended vertically by 3 inches to accomplish the scraping (to a total depth of 3.25 feet below original soil grade). Excavated rock and soil were disposed at a RCRA Subtitle D disposal facility. Confirmatory samples were then collected by BC of soil and rock scrapings from the floor of the excavation, and analyzed by Accutest.

Figure 6-7 shows the Round 4 excavation area, and the locations and concentrations of the post-excavation confirmatory samples of soil and rock. Confirmatory sample analyses indicated that the cleanup goal was achieved in the samples in the remaining excavation area. These results confirmed that PCB soil remediation on the site had achieved the remedial goal of 1 mg/kg PCBs or less in soil.

The final limits of PCB soil remediation on the site are shown on Figure 6-8. Analytical lab reports for the PCB soil remediation are contained on a CD in Appendix D.

6.2 Underground Storage Tanks

During the removal of building foundations, two underground storage tanks (USTs) were encountered. One UST was located in Building 10, and the other was located just outside the western exterior wall of Building 4 and the boiler room, as shown on Figure 6-8. These UST locations were consistent with USTs that were designated on historical drawings of the facility that date back to the 1960s. The Building 10 UST was a former 4,000-gallon #2 Fuel Oil storage tank. The Building 4 UST was a former 5,000-gallon #2 Fuel Oil storage tank.

When each UST was discovered, it was registered with the New York State Department of Environmental Conservation (NYSDEC), in accordance with NYSDEC regulations. Representatives of the local NYSDEC Region 9 office were contacted by BC and visited the site to confer with BC personnel about the management of the USTs.

Each UST was drained of liquids, the tank carcass was removed and cut up to render it no longer usable, and then disposed off site. Following the removal of each UST, non-aqueous phase liquids present in the excavation were removed, containerized, and disposed off-site.

Soils in the UST excavations that were visually impacted were excavated, staged for characterization, and disposed off-site at a permitted disposal facility. Initial soil samples were then collected by Sevenson and analyzed by Waste Stream Technologies, Buffalo, New York. Samples were analyzed for New York State TAGM 4046 parameters (8260/ 8270 STARS +tics) and compared to the TAGM 4046 guidelines to determine whether the remaining soil was impacted with petroleum constituents.

Additional soil excavation, and confirmatory sample collection and analyses, were repeated as necessary until the UST excavation met the NYSDEC cleanup guidelines. The additional soil samples for the Building 4 UST were collected by BC and analyzed by Accutest.

UST remediation wastes were disposed as summarized in Section 7.0. NYSDEC concurred that both UST excavations had been closed in accordance with the NYSDEC UST tank closure requirements. The final limits of UST soil remediation are shown on Figure 6-8, and the soil analytical results are presented in Appendix A.

6.3 Black Sand

During the removal of building foundations, black sand was encountered in the subslab soil. The visual characteristics of the sand appeared similar to spent foundry sand. BC collected two composite samples of the sand and had the samples analyzed by CAS for Target Analyte List (TAL) metals, TCLP Metals, and TCLP SVOCs. The analytical results are provided in Table 6-1 and in Appendix B. The black sand samples did not exceed any TCLP regulatory criteria, but did contain concentrations of a variety of metals.

Concentrations of lead and chromium in the black sand slightly exceeded the New York State Brownfields Soil Cleanup Objectives (SCOs) in 6 NYCRR Part 375 for Residential Use, but met the SCOs for Restricted Residential use and for Commercial use. Concentrations of arsenic slightly exceeded the SCOs for all uses. It is noted that the site is not in the New York State Brownfields Program, but the SCOs were used for informal screening purposes since the site could potentially be redeveloped under the Brownfields program or a similar program in the future.

Because it is not known when the site may be redeveloped, or whether it will be redeveloped under a residential, commercial or industrial setting, Howden elected to manage the black sand in place. NYSDEC representatives were consulted and accepted this approach with the stipulation that future remedial work could be required depending on the ultimate end use of the site.

Howden's original intent was to excavate the black sand from discrete locations where it was initially observed, consolidate the black sand in the area of former Building Nos. 9 and 10, and then cap the consolidated sand with a minimum 6 inches of clean fill material. Black sand that was present in the area of former Building Nos. 2 and 3 was relocated and consolidated in this manner.

The brick sidewalks were removed as directed by the City demolition ordinance. During this sidewalk work, black sand was identified beneath the sidewalks and was excavated and removed. Similarly a former foundry sand pit measuring 155 feet by 15 feet by approximately 6 feet deep was located beneath the sidewalk along Spring Street west of Buildings 9 and 10 as shown on Figure 6-8. Rather than bring the black sand from these areas onto the site for consolidation, the black sand was removed and disposed off-site at a permitted landfill, as described in Section 7.0.

As the building foundation removal activities continued to the northern areas of the site, black sand was observed to be scattered throughout most site soils in the former factory areas (i.e., the areas north of

Building Nos. 1, 2, and 3). The black sand was not present in discernible layers or depth intervals, but was present as sporadic veins. Howden and BC concluded that it was not technically or economically feasible to locate, excavate and consolidate the black sand to a central area of the site. Instead the black sand was left in place at an elevation no higher than 6 inches below the sidewalk level, to accommodate capping with clean fill material.

At the conclusion of this project, black sand was not present in the former areas of Building Nos. 1, 2, and 3. The black sand should be considered to be sporadically present throughout the remainder of the site beneath a clean fill layer of 6- to 12-inch typical thickness. Management of this sand may have to be addressed with any future development evaluations.

6.4 Miscellaneous Remediation Areas

During the removal of building foundations, two areas were discovered that contained visually-impacted material in the subsoil. These areas are shown on Figure 6-8 and consisted of:

- An area at the northwest corner of former Building 25 which contained an oily material in the subsoil.
- A pit in the middle of former Building 10 which contained greasy material in the subsoil.

The Building 25 area was addressed when BC was not present at the site, and this summary is based on information provided by others. The visually impacted material was excavated, staged for characterization, and disposed off-site at a permitted disposal facility. Side-wall and bottom samples were collected by Sevenson and analyzed by Waste Stream Technologies. A representative of NYSDEC reportedly reviewed the sample analytical results, concurred that further soil excavation was not required, and allowed the excavation to be backfilled.

The Building 10 area was addressed when BC was at the site. The greasy material was sampled by Sevenson and analyzed by Waste Stream Technologies for characterization purposes, and was found to contain no chemical constituents at concentrations of concern. Therefore, this excavation proceeded until the visually impacted material was removed.

Figure 6-8 shows the final excavation limits of both of these areas. Analytical results are provided in Appendix C.

6.5 Supply Well Abandonment

A water supply well was encountered within the Building 10 remediation area described in Section 6.4. The well measured 12 inches in diameter by 30 feet deep. The well was abandoned by tremmie grouting on December 4, 2006 by Buffalo Drilling Company as a subcontractor to Sevenson.

6.6 Site Backfilling and Restoration

After soil remediation work was completed, clean backfill was placed and compacted to a minimum thickness of 6 inches, or more, as necessary to achieve final grade. This work included backfilling of the basements in the former Building 1 and Building 3 areas.

The compacted fill was placed to meet sidewalk grades as required by the City demolition ordinance. A total project quantity of 15,901 tons of clean backfill was provided by LaFarge Quarry and placed by Sevenson. Sevenson also restored the perimeter sidewalks as required by the City demolition ordinance.

7.0 WASTE DISPOSAL SUMMARY

This section describes the final disposition of the materials generated by the work and transported or discharged off of the site. Waste materials were sampled and analyzed in accordance with the requirements of the respective disposal facilities.

7.1 TSCA and RCRA Decommissioning Wastes

During building decommissioning, 74 tons of TSCA PCB waste and 53.48 tons of RCRA D006 hazardous waste were generated and disposed at CWM Services facility in Model City, New York. The TSCA wastes were also classified and disposed as New York State B007 hazardous waste in CWM's TSCA-permitted cell. These wastes included portions of the wood block floor, sand bedding, floor residuals, and floor debris.

7.2 General Decommissioning Wastes

Building decommissioning activities generated 469.29 tons of nonhazardous waste which were disposed at Modern Disposal Corp. in Lewiston, New York. These wastes included the majority of the wood block floor, sand bedding, floor residuals, and floor debris.

7.3 Specialty Decommissioning and Lab Pack Wastes

During building decommissioning, several waste streams were removed from the facility and disposed at CWM Services located in Model City, New York. The following were disposed during the project:

- 838 lighting ballasts (as NYS B007 waste).
- 1,638 fluorescent light bulbs (Universal Waste)
- 159 mercury-containing lamps (D009 mercury hazardous waste).
- Three (3) drums of D001 hazardous waste liquids.
- Eight (8) drums of unregulated waste oil.
- One (1) drum of unregulated wastewater.
- One (1) drum of unregulated waste sodium hydroxide pellets.
- One (1) drum of unregulated waste black solids.
- One (1) drum of batteries

7.4 Electronic Waste

One truckload of electronic waste (discarded computer equipment) was removed from the facility. The e-waste was disposed at Lincoln Archives in Buffalo, New York.

7.5 Asbestos-Containing Demolition Debris

Asbestos-containing demolition debris, including crumbled slab concrete from discrete areas of the facility, was disposed at the asbestos-permitted Minerva Enterprises Landfill located in Waynesburg, Ohio. A total of 13,829.41 tons of asbestos demolition debris from the site was disposed during the project.

7.6 Recycled Brick

During the asbestos demolition phase, 9,966 tons of brick were decontaminated on-site and recycled at Carmen Pariso, Inc. in Tonawanda, New York.

7.7 Salvageable Steel

4,200.41 gross tons of steel were salvaged at various local steel salvage facilities. This material included the two UST carcasses.

7.8 TSCA PCB Concrete and Soil

A total of 250.1 tons of concrete from the capacitor room, and 148.24 tons of soil from the capacitor room and the northern half of Building 12, were removed and disposed as TSCA waste (and NYS B007 waste). This TSCA waste was disposed at CWM Services facility in Model City, New York.

7.9 PCB-Impacted Concrete

Concrete slabs and foundation that contained PCB concentrations greater than 1 mg/kg and less than 50 mg/kg, were disposed at Modern Disposal Corp. in Lewiston, New York. A total of 2,146.82 tons of concrete were disposed from the site.

7.10 Recycled Concrete

Concrete slabs and foundation that contained PCB concentrations less than 1 mg/kg were recycled at Carmen Pariso Inc. in Tonawanda, New York. A total of 11,707.44 tons of concrete were recycled during the project.

7.11 PCB-Impacted Soil

Excavated soil that did not require disposal at a TSCA-permitted facility was disposed at Modern Disposal Corp. in Lewiston, New York. This material included black sand excavated from beneath the sidewalks and from the former foundry sand pit. A total of 5,063.40 tons of non-TSCA, non-RCRA soil were disposed during the project.

7.12 Oily Wastewater and Non-Aqueous Phase Liquids

Oily water and non-aqueous phase liquids (NAPL) were disposed at CWM Services facility in Model City, New York. Twelve (12) drums of oily water and one (1) drum of NAPL from the USTs were disposed from the site as non-regulated waste.

7.13 Wastewater

Water from the basements of Building Nos. 1 and 3, and other wastewaters generated during the project were filtered on-site through a 5-micron filter and discharged to the Buffalo Sewer Authority sewer system. Water from suspect areas such as pits and sumps was sampled and analyzed prior to discharge to check that the water quality complied with discharge requirements. A total of 341,660 gallons of water were discharged from the site.

8.0 REPORT CERTIFICATION

The purpose of this Report was to document: 1) the decommissioning, demolition, and remedial work that was conducted at the 490 Broadway site in Buffalo, New York; 2) the conditions of the site at the conclusion of the project; and 3) that the self-implementing PCB cleanup of site media was implemented in accordance with the USEPA-approved Cleanup Plan and in accordance with federal regulations at 40 CFR 761.61(a)(3) under TSCA.

BC provided construction site services for this project from May 30, 2006 through July 14, 2006, and from November 15, 2006 through the remainder of the project. BC certifies the accuracy of the description of activities during these periods of time. Work that occurred during other times has been described by BC to the best of our knowledge as these activities were reported to BC by others.

Signature: _____

Robert J. Rivera, P.E.
Supervising Engineer and Project Manager

Date: September 14, 2007

Table 2-1. History of Facility Additions
490 Broadway Facility

Building No.	Date Added (year)	Building Footprint Area (sq ft)	No. of Floors	Total Built-Out Floor Area (sq ft)
1	1881	7,400	5	37,000
2	1886-1941	11,900	2	19,600
3	1900	11,200	6	67,200
4	1942-1954	21,900	2	34,200
5	1918	6,900	2	13,800
6	1918	26,700	2	53,400
7	1918	6,600	2	13,200
8	1920	1,300	3	3,900
9	1880-1924	15,000	3	45,000
10	1906	21,900	1	21,900
11	1918	25,200	2	46,500
12	1918	42,700	2	85,400
13	1918	17,000	1	17,000
18	1947	6,300	1	6,300
21	1951	6,900	1	6,900
22	1918-1953	6,300	1	6,300
23	1952	11,900	1	11,900
25	1963 - post 1968	21,200	1	6,800
27	1964	27,400	2	54,800
28	1947-1965	4,900	1	4,900
		300,600		556,000
14	1930	12,500	1	12,500

Table 3-1. Analytical Summary Request

LABEL		Location Description	Analyses						
			TCLP Metals	TCLP SVOCs	PCBs (8082)	TCL BNA Organics (SVOC's 8270)	VOCs	DRO	TAL Metals (6010B/7471A)
AQ-001	Aqueous	Bldg. 8			X	X			X
AQ-002	Aqueous	Bldg. 4			X	X	X		X
AQ-003	Aqueous	Bldg. 5			X	X			X
AQ-004	Aqueous	Bldg. 6			X	X			X
AQ-005	Aqueous	Bldg. 6			X	X			X
AQ-006	Aqueous	Bldg. 7			X	X			X
AQ-007	Aqueous	Bldg. 25			X	X	X		X
AQ-008	Aqueous	Bldg. 25			X	X			X
AQ-009	Aqueous	Bldg. 11			X	X			X
AQ-010	Aqueous	Bldg. 11			X	X	X	X	X
AQ-011	Aqueous	Bldg. 28			X	X			X
AQ-012	Aqueous	Bldg. 27			X	X		X	X
AQ-013	Aqueous	Bldg. 12			X	X		X	X
AQ-014	Aqueous	Bldg. 12			X	X			X
AQ-015	Aqueous	Bldg. 10			X	X	X	X	X
AQ-016	Aqueous	Bldg. 10			X	X			X
AQ-017	Aqueous	Bldg. 10			X	X	X	X	X
AQ-101	Aqueous	Duplicate of AQ-016			X	X			X
OIL-001	Oil	Bldg. 25			X	X		X	X
SED-001	Soil	Bldg. 18			X				
SED-002	Soil	Bldg. 4			X				
SED-003	Soil	Capacitor Rm			X				
SED-004	Soil	Bldg. 11			X				
SED-005	Soil	Bldg. 21			X				
SED-006	Soil	Bldg. 27			X				
SED-007	Soil	Bldg. 12			X				
SED-008	Soil	Bldg. 12			X				
SED-009	Soil	Bldg. 6			X				
SED-010	Soil	Bldg. 6			X				
SED-011	Soil	Bldg. 6			X				
SED-012	Soil	Bldg. 10			X				
SED-013	Soil	Bldg. 1	X	X			X		
SED-014	Soil	Bldg. 12	X	X		X	X		
SED-015	Soil	Bldg. 6	X	X			X		
SED-016	Soil	Bldg. 21	X	X			X		
SED-017	Soil	Bldg. 28	X	X			X		
SED-018	Soil	Bldg. 12	X	X					

Table 3-1. Analytical Summary Request										
LABEL		Location Description	Analyses							
			TCLP Metals	TCLP SVOCs	PCBs (8082)	TCL BNA Organics (SVOC's 8270)	VOCs	DRO	TAL Metals (6010B/7471A)
SED-019	Soil	Bldg. 10	X	X					
SED-020	Soil	Bldg. 9	X	X					
SED-021	Soil	Bldg. 21	X	X					
SED-022	Soil	Bldg. 10						X	
SED-023	Soil	Bldg. 12	X	X				X	
SED-024	Soil	Bldg. 1	X	X				X	
WIPE-001	PCB Wipe	Bldg. 10, 2nd floor			X				
WIPE-002	PCB Wipe	Elevator mount on roof, Bldg. 9			X				
WIPE-003	PCB Wipe	Control panel in Boiler Rm, Bldg. 6			X				
WIPE-004	PCB Wipe	Elect. Equip. in Capacitor Rm.			X				
WIPE-005	PCB Wipe	Elect. Equip. in Capacitor Rm.			X				
WIPE-006	PCB Wipe	Duplicate of WIPE-004			X				
WIPE-007	PCB Wipe	Elect. Switch in Capacitor Rm.			X				
WIPE-008	PCB Wipe	Bldg. 1			X				
WIPE-009	PCB Wipe	Bldg 1			X				
WIPE-010	PCB Wipe	Metal treadplate Bldg. 3			X				
WIPE-011	PCB Wipe	Control panel in Boiler Rm, Bldg. 6			X				
WIPE-012	PCB Wipe	Bldg. 7			X				
WIPE-013	PCB Wipe	Metal treadplate Bldg. 4			X				
WIPE-014	PCB Wipe	Mezanine floor Bldg. 7			X				
WIPE-015	PCB Wipe	Equip. pedastal Bldg. 6			X				
WIPE-016	PCB Wipe	Bldg. 12, 2nd Floor			X				
WIPE-017	PCB Wipe	Bldg. 12			X				
WIPE-018	PCB Wipe	Bldg. 12			X				
WIPE-019	PCB Wipe	Bldg. 12			X				
WIPE-020	PCB Wipe	Bldg. 12			X				
WIPE-021	PCB Wipe	Metal treadplate under tank, Bldg. 12			X				
WIPE-022	PCB Wipe	Metal box, Bldg. 12			X				
WIPE-023	PCB Wipe	Metal Treadplate, Bldg. 23			X				
WIPE-024	PCB Wipe	Metal bin, Bldg. 9			X				
WIPE-025	PCB Wipe	Metal equip. housing, Bldg. 10			X				
WIPE-026	PCB Wipe	Metal plate, Bldg. 21			X				
WIPE-027	PCB Wipe	Column pulley into sump, Bldg. 25			X				
CON-001	Concrete	Bldg. 25			X				
CON-002	Concrete	Bldg. 25			X				
CON-003	Concrete	Bldg. 25			X				
CON-004	Concrete	Bldg. 25			X				

Table 3-1. Analytical Summary Request

LABEL		Location Description	Analyses						
			TCLP Metals	TCLP SVOCs	PCBs (8082)	TCL BNA Organics (SVOC's 8270)	VOCs	DRO	TAL Metals (6010B/7471A)
CON-005	Concrete	Bldg. 25			X				
CON-006	Concrete	Bldg. 25			X				
CON-007	Concrete	Bldg. 25			X				
CON-008	Concrete	Bldg. 11			X				
CON-009	Concrete	Bldg. 11			X				
CON-010	Concrete	Bldg. 11			X				
CON-011	Concrete	Bldg. 11			X				
CON-012	Concrete	Bldg. 12			X				
CON-013	Concrete	Bldg. 21			X				
CON-014	Concrete	Bldg. 27			X				
CON-015	Concrete	Bldg. 11			X				
CON-016	Concrete	Bldg. 27			X				
CON-017	Concrete	Bldg. 27			X				
CON-018	Concrete	Bldg. 22			X				
CON-019	Concrete	Bldg. 22			X				
CON-020	Concrete	Bldg. 27			X				
CON-021	Concrete	Bldg. 12			X				
CON-022	Concrete	Bldg. 12			X				
CON-023	Concrete	Bldg. 12			X				
CON-024	Concrete	Bldg. 12			X				
CON-025	Concrete	Bldg. 12			X				
CON-026	Concrete	Bldg. 12			X				
CON-027	Concrete	Bldg. 6			X				
CON-028	Concrete	Bldg. 7			X				
CON-029	Concrete	Bldg. 6			X				
CON-030	Concrete	Bldg. 6			X				
CON-031	Concrete	Bldg. 6			X				
CON-032	Concrete	Bldg. 6			X				
CON-033	Concrete	Bldg. 5			X				
CON-034	Concrete	Bldg. 6			X				
CON-035	Concrete	Bldg. 23			X				
CON-036	Concrete	Bldg. 23			X				
CON-037	Concrete	Bldg. 23			X				
CON-038	Concrete	Bldg. 23			X				
CON-039	Concrete	Bldg. 18			X				
CON-040	Concrete	Bldg. 27			X				
CON-041	Concrete	Bldg. 27			X				

Table 3-1. Analytical Summary Request

LABEL		Location Description	Analyses						
			TCLP Metals	TCLP SVOCs	PCBs (8082)	TCL BNA Organics (SVOC's 8270)	VOCs	DRO	TAL Metals (6010B/7471A)
CON-042	Concrete	Bldg. 13			X				
CON-043	Concrete	Bldg. 9			X				
CON-044	Concrete	Bldg. 13			X				
CON-045	Concrete	Bldg. 13			X				
CON-046	Concrete	Bldg. 13			X				
CON-047	Concrete	Bldg. 13			X				
CON-048	Concrete	Bldg. 10			X				
CON-049	Concrete	Bldg. 10			X				
CON-050	Concrete	Bldg. 10			X				
CON-051	Concrete	Bldg. 10			X				
CON-052	Concrete	Bldg. 10			X				
CON-053	Concrete	Bldg. 9			X				
CON-054	Concrete	Bldg. 9			X				
CON-055	Concrete	Bldg. 4			X				
CON-056	Concrete	3rd floor, Bldg. 1			X				
CON-057	Concrete	Bldg. 4			X				
CON-058	Concrete	Bldg. 2			X				
CON-059	Concrete	Bldg. 4			X				
CON-060	Concrete	Bldg. 1			X				
CON-061	Concrete	Capacitor Rm.			X				
CON-062	Concrete	Capacitor Rm.			X				
CON-063	Concrete	Capacitor Rm.			X				
CON-064	Concrete	2nd floor, Bldg. 4			X				
CON-065	Concrete	2nd floor, Bldg. 9			X				
CON-066	Concrete	Capacitor Rm.			X				
CON-067	Concrete	Capacitor Rm.			X				
CON-100	Concrete	Duplicate of CON-018			X				
CON-101	Concrete	Duplicate of CON-027			X				
CON-102	Concrete	Duplicate of CON-066			X				
WB-001	Wood Block	Bldg. 25	X	X	X	X			X
WB-002	Wood Block	Bldg. 25	X	X	X	X			X
WB-003	Wood Block	Bldg. 25	X	X	X	X			X
WB-004	Wood Block	Bldg. 11	X	X	X	X			X
WB-100	Wood Block	Composite WB-005 & WB-007, Bldgs. 21 & 11	X	X	X	X			X
WB-101	Wood Block	Duplicate WB-100	X	X	X	X			X
WB-006	Wood Block	Bldg. 12	X	X	X	X		X	X

Table 3-1. Analytical Summary Request

LABEL		Location Description	Analyses						
			TCLP Metals	TCLP SVOCs	PCBs (8082)	TCL BNA Organics (SVOC's 8270)	VOCs	DRO	TAL Metals (6010B/7471A)
WB-008	Wood Block	Bldg. 22	X	X	X	X			X
WB-009	Wood Block	Bldg. 12	X	X	X	X		X	X
WB-010	Wood Block	Bldg. 6	X	X	X	X		X	X
WB-011	Wood Block	Bldg. 7	X	X	X	X		X	X
SAND-100	Sand	Composite Sand-003 & Sand-004, Bldg. 25	X	X	X	X			X
SAND-101	Sand	Composite Sand-005 & Sand-006, Bldg. 25	X	X	X	X			X
SAND-102	Sand	Composite Sand-001 & Sand-002, Bldg. 25	X	X	X	X			X
SAND-008	Sand	Bldg. 11	X	X	X	X			X
SAND-103	Sand	Composite Sand-007 & Sand-010, Bldgs. 11 & 12	X	X	X	X			X
SAND-104	Sand	Composite Sand-011 & Sand-012, Bldg. 22	X	X	X	X			X
SAND-105	Sand	Composite Sand-009, Sand-013 & Sand-014, Bldg. 12	X	X	X	X		X	X
SAND-106	Sand	Composite Sand-015, Sand-016, Sand-017 & Sand-018, Bldg. 12	X	X	X	X		X	X
SAND-107	Sand	Duplicate of SAND-106	X	X	X	X		X	X
SAND-108	Sand	Composite Sand-019, Sand-020 & Sand-021, Bldg. 6	X	X	X	X		X	X
SAND-022	Sand	Bldg. 7	X	X	X	X		X	X
WF-001	Wood Floor	2nd floor, Bldg. 11			X				
WF-002	Wood Floor	2nd floor, Bldg. 11			X				
WF-003	Wood Floor	2nd floor, Bldg. 11			X				
WF-004	Wood Floor	Duplicate of WF-003			X				
WF-005	Wood Floor	2nd floor, Bldg. 12			X				

Table 3-1. Analytical Summary Request										
LABEL		Location Description	Analyses							
			TCLP Metals	TCLP SVOCs	PCBs (8082)	TCL BNA Organics (SVOC's 8270)	VOCs	DRO	TAL Metals (6010B/7471A)
WF-006	Wood Floor	2nd floor, Bldg. 18			X				
WF-007	Wood Floor	2nd floor, Bldg. 21			X				
WF-008	Wood Floor	2nd floor, Bldg. 10			X				
WF-009	Wood Floor	2nd floor, Bldg. 22			X				
WF-010	Wood Floor	2nd floor, Bldg. 12			X				
WF-011	Wood Floor	2nd floor, Bldg. 12			X				
WF-012	Wood Floor	2nd floor, Bldg. 5			X				
WF-013	Wood Floor	2nd floor, Bldg. 4			X				
WF-014	Wood Floor	2nd floor, Bldg. 6			X				
WF-015	Wood Floor	2nd floor, Bldg. 4			X				
WF-016	Wood Floor	Bldg. 3			X				
WF-017	Wood Floor	Bldg. 3			X				
WF-018	Wood Floor	Bldg. 3			X				
WF-019	Wood Floor	5th floor, Bldg. 1			X				
WF-020	Wood Floor	4th floor, Bldg. 1			X				
WF-021	Wood Floor	6th floor, Bldg. 3			X				
WF-022	Wood Floor	5th floor, Bldg. 3			X				
WF-023	Wood Floor	4th floor, Bldg. 3			X				
WF-024	Wood Floor	3rd floor, Bldg. 3			X				

Table 3-2. Analytical Summary for Solid Samples
TCLP Semivolatile Organic Compounds (SVOCs) and Metals

ANALYTE	Regulatory Level (mg/L)	Highest Result (mg/L)	TCLP METALS & SVOCs (mg/L)											
			SED-013	SED-014	SED-015	SED-016	SED-017	SED-018	SED-019	SED-020	SED-021	SED-023	SED-024	WB-001
Arsenic	5.0	0.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Barium	100.0	3.120	1.00 U	1.00 U	3.120	2.680	1.380	1.00 U	1.00 U	1.320	2.030	1.00 U	1.00 U	1.00 U
Cadmium	1.0	2.330	0.124	0.100 U	0.462	0.403	0.100 U	0.100 U	0.100 U	0.100 U	**1.570**	0.100 U	0.100 U	0.100 U
Chromium	5.0	0.100	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Lead	5.0	4.700	0.100 U	0.100 U	0.210	0.158	0.100 U	0.100 U	0.100 U	1.360	2.680	0.388	0.152	0.100 U
Mercury	0.2	0.003	0.003	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	1.0	0.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Silver	5.0	0.100	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
1,4-Dichlorobenzene	7.5	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2,4-Dinitrotoluene	0.1	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachlorobenzene	0.1	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachlorobutadiene	0.5	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachloroethane	3.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2-Methylphenol (o-Cresol)	200.0	0.580	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
3 +4-Methylphenol (m+p-Cresol)	200.0	2.400	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Nitrobenzene	2.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Pentrachlorophenol	100.0	1.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Pyridine	5.0	1.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,4,5-Trichlorophenol	400.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2,4,6-Trichlorophenol	2.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Note: Bold = Result is greater than RCRA characteristic Hazardous Waste Limit.

Table 3-2. Analytical Summary for Solid Samples
TCLP Semivolatile Organic Compounds (SVOCs) and Metals

ANALYTE	Regulatory Level (mg/L)	Highest Result (mg/L)	TCLP METALS & SVOCs (mg/L)										
			WB-002	WB-003	WB-003 (2)	WB-004	WB-100	WB-101	WB-006	WB-008	WB-009	WB-010	WB-011
Arsenic	5.0	0.500	0.500 U	0.500 U	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Barium	100.0	3.120	1.00 U	1.00 U	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Cadmium	1.0	2.330	0.155	0.100 U	--	0.100 U	0.261	0.299	0.100 U	0.100 U	0.100 U	0.278	0.100 U
Chromium	5.0	0.100	0.100 U	0.100 U	--	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Lead	5.0	4.700	0.102	0.100 U	--	0.137	0.306	0.483	0.100 U	0.432	0.100 U	0.200	0.181
Mercury	0.2	0.003	0.003 U	0.003 U	--	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	1.0	0.500	0.500 U	0.500 U	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Silver	5.0	0.100	0.100 U	0.100 U	--	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
1,4-Dichlorobenzene	7.5	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2,4-Dinitrotoluene	0.1	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachlorobenzene	0.1	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachlorobutadiene	0.5	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachloroethane	3.0	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2-Methylphenol (o-Cresol)	200.0	0.580	0.100 U	0.580	0.600 D	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
3 +4-Methylphenol (m+p-Cresol)	200.0	2.400	0.100 U	2.100 E	2.400 D	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Nitrobenzene	2.0	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Pentrachlorophenol	100.0	1.500	0.500 U	0.500 U	1.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Pyridine	5.0	1.500	0.500 U	0.500 U	1.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,4,5-Trichlorophenol	400.0	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2,4,6-Trichlorophenol	2.0	0.300	0.100 U	0.100 U	0.300 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Note: Bold = Result is greater than RCRA characteristic Hazardous Waste Limit.

Table 3-2. Analytical Summary for Solid Samples
TCLP Semivolatile Organic Compounds (SVOCs) and Metals

ANALYTE	Regulatory Level (mg/L)	Highest Result (mg/L)	TCLP METALS & SVOCs (mg/L)										
			SAND-100	SAND-101	SAND-102	SAND-008	SAND-103	SAND-104	SAND-105	SAND-106	SAND-107	SAND-108	SAND-022
Arsenic	5.0	0.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Barium	100.0	3.120	1.840	1.410	1.00 U	1.00 U	1.900	1.050	1.00 U	1.00 U	1.00 U	1.150	1.00 U
Cadmium	1.0	2.330	0.154	0.750	0.100 U	0.100 U	**2.330**	0.156	0.100 U	0.703	0.677	0.452	0.556
Chromium	5.0	0.100	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Lead	5.0	4.700	1.560	0.304	0.100 U	0.218	4.700	1.020	0.100 U	0.336	0.239	0.367	0.341
Mercury	0.2	0.003	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	1.0	0.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Silver	5.0	0.100	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
1,4-Dichlorobenzene	7.5	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2,4-Dinitrotoluene	0.1	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachlorobenzene	0.1	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachlorobutadiene	0.5	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Hexachloroethane	3.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2-Methylphenol (o-Cresol)	200.0	0.580	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
3 +4-Methylphenol (m+p-Cresol)	200.0	2.400	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Nitrobenzene	2.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Pentrachlorophenol	100.0	1.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Pyridine	5.0	1.500	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2,4,5-Trichlorophenol	400.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
2,4,6-Trichlorophenol	2.0	0.300	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U

Note: Bold = Result is greater than RCRA characteristic Hazardous Waste Limit.

Table 3-3. Analytical Summary for Aqueous Samples
TCLP Semivolatile Organic Compounds (SVOCs) and Metals

ANALYTE	Regulatory Level (mg/L)	Highest Result (mg/L)	TCLP METALS & SVOCs (mg/L)								
			AQ-001	AQ-002	AQ-003	AQ-004	AQ-005	AQ-006	AQ-007	AQ-008	AQ-009
Arsenic	5.0	0.026	0.010 U	0.010 U	0.010 U	0.010 U	0.026	0.010 U	0.010 U	0.010 U	0.010 U
Barium	100.0	0.938	0.054 U	0.112	0.214	0.551	0.692	0.113	0.020 U	0.029	0.374
Cadmium	1.0	0.293	0.005 U	0.005 U	0.005 U	0.005 U	0.039	0.005 U	0.005 U	0.005 U	0.293
Chromium	5.0	0.276	0.010 U	0.010 U	0.010 U	0.010 U	0.276	0.010 U	0.010 U	0.010 U	0.143
Lead	5.0	0.800	0.005 U	0.005 U	0.079	0.045	0.800	0.067	0.025	0.005 U	0.458
Mercury	0.2	0.000	0.000 U	0.000	0.000 U	0.000 U	0.000 U	0.000 U	0.000 U	0.000 U	0.000 U
Selenium	1.0	0.010	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver	5.0	0.010	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzene	0.5	0.005		0.005 U					0.005 U		
Carbon Tetrachloride	0.5	0.005		0.005 U					0.005 U		
Chlorobenzene	100.0	0.005		0.005 U					0.005 U		
Chloroform	6.0	0.005		0.005 U					0.005 U		
m-Cresol	200.0	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
p-Cresol	200.0	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
1,4-Dichlorobenzene	7.5	0.005		0.005 U					0.005 U		
1,2-Dichloroethane	0.5	0.005		0.005 U					0.005 U		
1,1-Dichloroethylene	0.7	0.005		0.005 U					0.005 U		
2,4-Dinitrotoluene	0.1	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
Hexachlorobenzene	0.1	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
Hexachlorobutadiene	0.5	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
Hexachloroethane	3.0	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
Nitrobenzene	2.0	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
Pentrachlorophenol	100.0	2.500	0.049 U	0.056 U	0.053 U	0.047 U	0.250 U	0.047 U	0.049 U	0.057 U	0.051 U
Tetrachloroethylene	0.7	0.005		0.005 U					0.005 U		
Trichloroethylene	0.5	0.020		0.020					0.005 U		
2,4,5-Trichlorophenol	400.0	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
2,4,6-Trichlorophenol	2.0	0.510	0.010 U	0.011 U	0.011 U	0.009 U	0.049 U	0.009 U	0.010 U	0.012 U	0.010 U
Vinyl chloride	0.2	0.002		0.002 U					0.002 U		

Note: Gray = Constituent not analyzed in this sample.

Table 3-3. Analytical Summary for Aqueous Samples
TCLP Semivolatile Organic Compounds (SVOCs) and Metals

ANALYTE	Regulatory Level (mg/L)	Highest Result (mg/L)	TCLP METALS & SVOCs (mg/L)								
			AQ-010	AQ-011	AQ-012	AQ-013	AQ-014	AQ-015	AQ-016	AQ-017	AQ-101
Arsenic	5.0	0.026	0.010 U	0.010 U	0.018	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	100.0	0.938	0.170	0.173	0.529	0.130	0.938	0.037	0.037	0.039	0.051
Cadmium	1.0	0.293	0.008	0.008	0.005 U	0.005 U	0.032	0.005 U	0.005 U	0.005 U	0.005 U
Chromium	5.0	0.276	0.018	0.036	0.028	0.010 U	0.067	0.010 U	0.010 U	0.010 U	0.010 U
Lead	5.0	0.800	0.066	0.268	0.119	0.021	0.716	0.018	0.015	0.135	0.027
Mercury	0.2	0.000	0.000 U	0.000 U	0.000 U	0.000 U	0.000 U	0.000 U	0.000 U	0.000	0.000 U
Selenium	1.0	0.010	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver	5.0	0.010	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzene	0.5	0.005	0.005 U					0.005 U		0.005 U	
Carbon Tetrachloride	0.5	0.005	0.005 U					0.005 U		0.005 U	
Chlorobenzene	100.0	0.005	0.005 U					0.005 U		0.005 U	
Chloroform	6.0	0.005	0.005 U					0.005 U		0.005 U	
m-Cresol	200.0	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
p-Cresol	200.0	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
1,4-Dichlorobenzene	7.5	0.005	0.005 U					0.005 U		0.005 U	
1,2-Dichloroethane	0.5	0.005	0.005 U					0.005 U		0.005 U	
1,1-Dichloroethylene	0.7	0.005	0.005 U					0.005 U		0.005 U	
2,4-Dinitrotoluene	0.1	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
Hexachlorobenzene	0.1	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
Hexachlorobutadiene	0.5	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
Hexachloroethane	3.0	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
Nitrobenzene	2.0	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
Pentrachlorophenol	100.0	2.500	0.053 U	0.050 U	2.300 U	0.057 U	2.500 U	0.056 U	0.051 U	0.057 U	0.500 U
Tetrachloroethylene	0.7	0.005	0.005 U					0.005 U		0.005 U	
Trichloroethylene	0.5	0.020	0.005 U					0.005 U		0.005 U	
2,4,5-Trichlorophenol	400.0	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
2,4,6-Trichlorophenol	2.0	0.510	0.011 U	0.010 U	0.470 U	0.011 U	0.510 U	0.011 U	0.010 U	0.012 U	0.100 U
Vinyl chloride	0.2	0.002	0.002 U					0.002 U		0.002 U	

Note: Gray = Constituent not analyzed in this sample.

Table 3-4. Analytical Summary for PCB Grab Samples

SAMPLE LABEL	PCBs (mg/kg)							
	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB1260	Total PCB Result
SED-001	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
SED-002	0.200 U	0.410 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	U
SED-003	18.000 U	36.000 U	18.000 U	**66.000**	18.000 U	24.000	18.000 U	**90.00**
SED-004	0.250 U	0.520 U	0.250 U	0.250 U	0.250 U	0.250 U	0.590	0.59
SED-005	0.200 U	0.400 U	0.200 U	0.200 U	0.200 U	1.900	0.200 U	1.90
SED-006	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
SED-007	27.000 U	54.000 U	27.000 U	27.000 U	27.000 U	**140.000**	27.000 U	**140.00**
SED-008	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
SED-009	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
SED-010	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
SED-011	0.250 U	0.520 U	0.250 U	0.250 U	0.250 U	2.400	0.250 U	2.40
SED-012	0.260 U	0.540 U	0.260 U	0.260 U	0.260 U	0.620	0.260 U	0.62
WF-001	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	1.500	1.300	2.80
WF-002	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	1.000	0.560	1.56
WF-003	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.580	0.480	1.06
WF-004	0.066 U	0.130 U	0.066 U	0.066 U	0.066 U	1.000	0.066 U	1.00
WF-005	0.330 U	0.670 U	0.330 U	0.330 U	0.330 U	4.300	0.330 U	4.30
WF-006	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WF-007	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WF-008	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WF-009	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.220	0.033 U	0.22
WF-010	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	2.000	0.170 U	2.00
WF-011	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.580	0.033 U	0.58
WF-012	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.220	0.033 U	0.22
WF-013	0.033 U	0.067 U	0.033 U	0.033 U	0.130	0.033 U	0.033 U	0.13
WF-014	0.033 U	0.067 U	0.033 U	0.033 U	0.330	0.560	0.033 U	0.89
WF-015	0.033 U	0.067 U	0.033 U	0.033 U	0.660	0.033 U	0.033 U	0.66
WF-016	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.600	0.033 U	0.60
WF-017	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.590	0.033 U	0.59
WF-018	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WF-019	0.033 U	0.067 U	0.033 U	0.033 U	0.280	0.280 P	0.033 U	0.56
WF-020	0.033 U	0.067 U	0.033 U	0.033 U	0.580	0.033 U	0.033 U	0.58
WF-021	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	1.600	0.170 U	1.60
WF-022	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	1.100	0.170 U	1.10
WF-023	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.420	0.033 U	0.42
WF-024	0.170 U	0.340 U	0.170 U	0.170 U	0.560	1.200 P	0.170 U	1.76
CON-001	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-002	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U

Table 3-4. Analytical Summary for PCB Grab Samples

SAMPLE LABEL	PCBs (mg/kg)							
	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB1260	Total PCB Result
CON-003	0.180 U	0.370 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
CON-004	0.170 U	0.350 U	0.170 U	0.170 U	0.670	0.170 U	0.170 U	0.67
CON-005	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.510	0.170 U	0.51
CON-006	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
CON-007	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-008	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
CON-009	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-010	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-011	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-012	1.80 U	3.60 U	1.80 U	1.80 U	1.80 U	10.000	1.80 U	10.00
CON-013	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-014	0.850 U	1.700 U	0.850 U	0.850 U	0.850 U	0.850 U	5.100	5.10
CON-015	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-016	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.740	0.170 U	0.74
CON-017	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	1.300	0.170 U	1.30
CON-018	0.180 U	0.370 U	0.180 U	0.180 U	0.180 U	1.500	0.780	2.28
CON-019	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.340	0.170 U	0.34
CON-020	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-020 (2)	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-021	0.850 U	1.700 U	0.850 U	0.850 U	0.850 U	4.200	0.850 U	4.20
CON-022	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.500	0.180 U	0.50
CON-023	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
CON-024	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-025	0.170 U	0.340 U	0.170 U	0.170 U	0.650	0.900	0.170 U	1.55
CON-026	0.190 U	0.380 U	0.190 U	0.190 U	0.190 U	0.190 U	0.190 U	U
CON-027	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.390	0.170 U	0.39
CON-028	0.830 U	1.700 U	0.830 U	0.830 U	0.830 U	2.800	0.83	3.63
CON-029	0.850 U	1.700 U	0.850 U	0.850 U	0.850 U	3.500	0.850 U	3.50
CON-030	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-031	0.190 U	0.380 U	0.190 U	0.190 U	0.190 U	0.860	0.190 U	0.86
CON-032	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
CON-033	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-034	0.170 U	0.350 U	0.170 U	0.170 U	0.460	0.760	0.170 U	1.22
CON-035	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-036	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.370	0.170 U	0.37
CON-037	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-038	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-039	0.180 U	0.380 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U

Table 3-4. Analytical Summary for PCB Grab Samples

SAMPLE LABEL	PCBs (mg/kg)							
	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB1260	Total PCB Result
CON-040	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-041	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-042	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-043	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-044	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-044 (2)	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-045	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-046	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.510	0.51
CON-047	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-048	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-049	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-050	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-051	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-052	0.170 U	0.360 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-053	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-054	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-055	0.180 U	0.360 U	0.180 U	0.180 U	0.180 U	0.260	0.180 U	0.26
CON-056	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.570	0.170 U	0.57
CON-057	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-058	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.680	0.450	1.13
CON-059	0.180 U	0.370 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	U
CON-060	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.460	0.170 U	0.46
CON-061	0.170 U	0.340 U	0.170 U	0.810	0.170 U	0.170 U	0.450	1.26
CON-062	1.700 U	3.400 U	1.700 U	5.500	1.700 U	1.700 U	5.4	10.90
CON-063	18.000 U	36.000 U	18.000 U	**56.000**	18.000 U	18.000 U	18.000 U	**56.00**
CON-064	1.700 U	3.500 U	1.700 U	1.700 U	1.700 U	8.400	7.400	15.80
CON-065	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
CON-066	17.000 U	35.000 U	17.000 U	**53.000**	17.000 U	17.000 U	17.000 U	**53.00**
CON-067	0.880 U	1.800 U	0.880 U	2.800 U	0.880 U	0.880 U	0.880 U	U
CON-100	0.180 U	0.370 U	0.180 U	0.180 U	0.180 U	1.000	1.000	2.00
CON-101	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.290	0.170 U	0.29
CON-102	17.000 U	35.000 U	17.000 U	**77.000**	17.000 U	17.000 U	17.000 U	**77.00**
WB-001	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-002	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-003	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-004	0.170 U	0.340 U	0.170 U	0.170 U	0.170 U	1.100	0.170 U	1.10
WB-100	0.330 U	0.670 U	0.330 U	0.330 U	0.330 U	2.300	0.330 U	2.30
WB-101	0.330 U	0.670 U	0.330 U	0.330 U	0.330 U	2.400	0.330 U	2.40

Table 3-4. Analytical Summary for PCB Grab Samples								
	PCBs (mg/kg)							
SAMPLE LABEL	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB1260	Total PCB Result
WB-006	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-008	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-009	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-010	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
WB-011	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
SAND-100	0.200 U	0.400 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	U
SAND-100 (2)	0.200 U	0.400 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	U
SAND-101	0.200 U	0.400 U	0.200 U	0.200 U	0.890	0.200 U	0.200 U	0.89
SAND-101 (2)	0.200 U	0.400 U	0.200 U	0.200 U	0.620	0.200 U	0.200 U	0.62
SAND-102	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
SAND-102 (2)	0.170 U	0.350 U	0.170 U	0.170 U	0.170 U	0.170 U	0.170 U	U
SAND-008	0.430 U	0.870 U	0.430 U	0.430 U	0.430 U	2.700	0.430 U	2.70
SAND-008 (2)	0.430 U	0.870 U	0.430 U	0.430 U	0.430 U	2.300	0.430 U	2.30
SAND-103	0.380 U	0.770 U	0.380 U	0.380 U	0.380 U	0.380 U	1.700	1.70
SAND-103 (2)	0.380 U	0.770 U	0.380 U	0.380 U	0.380 U	0.380 U	1.400	1.40
SAND-104[1]	2.100 U	4.300 U	2.100 U	2.100 U	2.100 U	11.000	2.100 U	11.00
SAND-105	0.930 U	1.900 U	0.930 U	0.930 U	0.930 U	4.000	0.930 U	4.00
SAND-106	0.410 U	0.820 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	U
SAND-106 (2)	0.410 U	0.820 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	U
SAND-107	0.400 U	0.810 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	U
SAND-107 (2)	0.400 U	0.810 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	U
SAND-108	0.200 U	0.400 U	0.200 U	0.200 U	0.200 U	1.600	0.200 U	1.60
SAND-108 (2)	0.200 U	0.400 U	0.200 U	0.200 U	0.200 U	1.300	0.200 U	1.30
SAND-022	0.190 U	0.380 U	0.190 U	0.190 U	0.190 U	1.100	0.190 U	1.10
SAND-022 (2)	0.190 U	0.380 U	0.190 U	0.190 U	0.190 U	1.100	0.190 U	1.10
6A1bestos Siding 1	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U
6A1bestos Siding 2	0.033 U	0.067 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	U

Table 3-4. Analytical Summary for PCB Grab Samples

SAMPLE LABEL	PCBs (mg/kg) PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB1260	Total PCB Result
PCBs (mg/L)								
AQ-001	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
AQ-002	0.001 U	0.0021 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
AQ-003	0.00095 U	0.0019 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	U
AQ-004	0.00095 U	0.0019 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	U
AQ-005	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
AQ-006	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	U
AQ-007	0.00098 U	0.002 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	U
AQ-008	0.00098 U	0.002 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	U
AQ-009	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
AQ-010	0.001 U	0.0021 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
AQ-011	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	U
AQ-012	0.0011 U	0.0021 U	0.0011 U	0.0011 U	0.0025	0.0011 U	0.0011 U	0.0025
AQ-012 (2)	0.0011 U	0.0022 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	U
AQ-013	0.0011 U	0.0021 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	U
AQ-014	0.0022 U	0.0042 U	0.0022 U	0.0022 U	0.0022 U	21.000	0.0022 U	21.00
AQ-015	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	U
AQ-016	0.001 U	0.0021 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
AQ-017	0.0011 U	0.0023 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	U
AQ-101	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	U
OIL-001	10.000 U	20.000 U	10.000 U	10.000 U	10.000 U	10.000 U	10.000 U	U

NOTES:

[1] Site QC was requested for SAND-104, however, due to lack of volume, QC was performed on SAND-103.

[2] Eleven SAND samples were run several times but not between compliant CCV's. The CCV's failed due to sample matrix. Both sets of data have been reported out.

LEGEND	
150	Result >50 mg/L

Table 3-5. Analytical summary for PCB Wipe Samples							
	PCB WIPE (µg/100 sq cm)						
SAMPLE LABEL	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB1260
WIPE-001	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-002	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-003	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-004	10 U	20 U	10 U	45	10 U	11 U	12 U
WIPE-005	2.0 U	4.0 U	2.0 U	4.6	2.0 U	2.0 U	2.0 U
WIPE-006	4.0 U	8.0 U	4.0 U	29	4.0 U	4.0 U	4.0 U
WIPE-007	4.0 U	8.0 U	4.0 U	28	4.0 U	4.0 U	4.0 U
WIPE-008	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-009	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-010	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-011	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-012	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-013	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-014	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-015	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-016	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-017	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-018	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-019	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	5.8	2.0 U
WIPE-020	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-021	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-022	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.9
WIPE-023	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-024	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-025	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-026	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
WIPE-027	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)							
SVOC ANALYTE	SAND-100		SAND-101		SAND-102		SAND-008	
ACENAPHTHENE	20000	U	39000	U	2500	J	21000	U
ACENAPHTHYLENE	20000	U	39000	U	3300	J	8700	J
ACETOPHENONE	20000	U	39000	U	6900	U	21000	U
ANTHRACENE	2500	J	39000	U	5000	J	12000	J
ATRAZINE	20000	U	39000	U	6900	U	21000	U
BENZALDEHYDE	20000	U	39000	U	6900	U	21000	U
BENZO(A)ANTHRACENE	5100	J	39000	U	32000		16000	J
BENZO(A)PYRENE	3900	J	39000	U	23000		18000	J
BENZO(B)FLUORANTHENE	11000	J	39000	U	41000		25000	
BENZO(G,H,I)PERYLENE	6000	J	39000	U	24000		17000	J
BENZO(K)FLUORANTHENE	9700	J	39000	U	37000		20000	J
1,1'-BIPHENYL	20000	U	39000	U	6900	U	21000	U
BUTYL BENZYL PHTHALATE	20000	U	39000	U	6900	U	21000	U
DI-N-BUTYLPHTHALATE	20000	U	39000	U	6900	U	21000	U
CAPROLACTAM	20000	U	39000	U	6900	U	21000	U
CARBAZOLE	20000	U	39000	U	1700	J	3600	J
INDENO(1,2,3-CD)PYRENE	5900	J	39000	U	23000		16000	J
4-CHLOROANILINE	20000	U	39000	U	6900	U	21000	U
BIS(-2-CHLOROETHOXY)METHANE	20000	U	39000	U	6900	U	21000	U
BIS(2-CHLOROETHYL)ETHER	20000	U	39000	U	6900	U	21000	U
2-CHLORONAPHTHALENE	20000	U	39000	U	6900	U	21000	U
2-CHLOROPHENOL	20000	U	39000	U	6900	U	21000	U
2,2'-OXYBIS(1-CHLOROPROPANE)	20000	U	39000	U	6900	U	21000	U
CHRYSENE	11000	J	39000	U	32000		26000	
DIBENZO(A,H)ANTHRACENE	20000	U	39000	U	6200	J	6500	J
DIBENZOFURAN	20000	U	39000	U	2100	J	5600	J
3,3'-DICHLOROBENZIDINE	20000	U	39000	U	6900	U	21000	U
2,4-DICHLOROPHENOL	20000	U	39000	U	6900	U	21000	U
DIETHYLPHTHALATE	20000	U	39000	U	6900	U	21000	U
DIMETHYL PHTHALATE	20000	U	39000	U	6900	U	21000	U
2,4-DIMETHYLPHENOL	20000	U	39000	U	6900	U	21000	U
2,4-DINITROPHENOL	100000	U	200000	U	36000	U	110000	U
2,4-DINITROTOLUENE	20000	U	39000	U	6900	U	21000	U
2,6-DINITROTOLUENE	20000	U	39000	U	6900	U	21000	U
BIS(2-ETHYLHEXYL)PHTHALATE	5700	J	39000	U	3700	J	21000	U
FLUORANTHENE	17000	J	39000	U	58000		25000	
FLUORENE	20000	U	39000	U	2100	J	21000	U
HEXACHLOROBENZENE	20000	U	39000	U	6900	U	21000	U
HEXACHLOROBUTADIENE	20000	U	39000	U	6900	U	21000	U
HEXACHLOROCYCLOPENTADIENE	20000	U	39000	U	6900	U	21000	U
HEXACHLOROETHANE	20000	U	39000	U	6900	U	21000	U
ISOPHORONE	20000	U	39000	U	6900	U	21000	U
2-METHYLNAPHTHALENE	20000	U	39000	U	740	J	3600	J
4,6-DINITRO-2-METHYLPHENOL	100000	U	200000	U	36000	U	110000	U
4-CHLORO-3-METHYLPHENOL	20000	U	39000	U	6900	U	21000	U
2-METHYLPHENOL	20000	U	39000	U	6900	U	21000	U
4-METHYLPHENOL	20000	U	39000	U	6900	U	21000	U
NAPHTHALENE	20000	U	39000	U	1000	J	4700	J
2-NITROANILINE	100000	U	200000	U	36000	U	110000	U
3-NITROANILINE	100000	U	200000	U	36000	U	110000	U
4-NITROANILINE	100000	U	200000	U	36000	U	110000	U
NITROBENZENE	20000	U	39000	U	6900	U	21000	U
2-NITROPHENOL	20000	U	39000	U	6900	U	21000	U
4-NITROPHENOL	100000	U	200000	U	36000	U	110000	U
N-NITROSODIPHENYLAMINE	20000	U	39000	U	6900	U	21000	U
DI-N-OCTYL PHTHALATE	20000	U	39000	U	6900	U	21000	U
PENTACHLOROPHENOL	100000	U	200000	U	36000	U	110000	U
PHENANTHRENE	5900	J	39000	U	14000		16000	J
PHENOL	20000	U	39000	U	6900	U	21000	U
4-BROMOPHENYL-PHENYLETHER	20000	U	39000	U	6900	U	21000	U
4-CHLOROPHENYL-PHENYLETHER	20000	U	39000	U	6900	U	21000	U
N-NITROSO-DI-N-PROPYLAMINE	20000	U	39000	U	6900	U	21000	U
PYRENE	12000	J	39000	U	86000		20000	J
2,4,6-TRICHLOROPHENOL	20000	U	39000	U	6900	U	21000	U
2,4,5-TRICHLOROPHENOL	20000	U	39000	U	6900	U	21000	U
TERPHENYL-d14	0	D	0	D	0	D	0	D
NITROBENZENE-d5	0	D	0	D	0	D	0	D
PHENOL-d6	0	D	0	D	0	D	0	D
2-FLUOROBIPHENYL	0	D	0	D	0	D	0	D
2-FLUOROPHENOL	0	D	0	D	0	D	0	D
2,4,6-TRIBROMOPHENOL	0	D	0	D	0	D	0	D

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)			
VOC ANALYTE	SAND-100	SAND-101	SAND-102	SAND-008
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
2-BUTANONE (MEK)				
METHYL-TERT-BUTYL ETHER				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLOROETHANE				
CHLOROFORM				
CHLOROMETHANE				
1,2-DIBROMO-3-CHLOROPROPANE				
CYCLOHEXANE				
DIBROMOCHLOROMETHANE				
1,2-DIBROMOETHANE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,2-DICHLOROBENZENE				
DICHLORODIFLUOROMETHANE				
1,1-DICHLOROETHANE				
1,2-DICHLOROETHANE				
1,1-DICHLOROETHENE				
CIS-1,2-DICHLOROETHENE				
TRANS-1,2-DICHLOROETHENE				
1,2-DICHLOROPROPANE				
CIS-1,3-DICHLOROPROPENE				
TRANS-1,3-DICHLOROPROPENE				
ETHYLBENZENE				
2-HEXANONE				
ISOPROPYLBENZENE				
METHYL ACETATE				
METHYLCYCLOHEXANE				
METHYLENE CHLORIDE				
4-METHYL-2-PENTANONE (MIBK)				
STYRENE				
1,1,2,2-TETRACHLOROETHANE				
TETRACHLOROETHENE				
TOLUENE				
1,2,4-TRICHLOROBENZENE				
1,1,1-TRICHLOROETHANE				
1,1,2-TRICHLOROETHANE				
TRICHLOROETHENE				
TRICHLOROFLUOROMETHANE				
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE				
VINYL CHLORIDE				
O-XYLENE				
M+P-XYLENE				
DIESEL RANGE ORGANICS				
DIESEL RANGE ORGANICS				

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)			
SVOC ANALYTE	SAND-103	SAND-104	SAND-105	SAND-106
ACENAPHTHENE	19000 U	6600 J	3100 J	15000 J
ACENAPHTHYLENE	3600 J	8200 J	4700 J	8800 J
ACETOPHENONE	19000 U	42000 U	19000 U	41000 U
ANTHRACENE	6300 J	36000 J	13000 J	38000 J
ATRAZINE	19000 U	42000 U	19000 U	41000 U
BENZALDEHYDE	19000 U	42000 U	19000 U	41000 U
BENZO(A)ANTHRACENE	11000 J	57000	35000	52000
BENZO(A)PYRENE	14000 J	31000 J	16000 J	29000 J
BENZO(B)FLUORANTHENE	16000 J	55000	22000	38000 J
BENZO(G,H,I)PERYLENE	12000 J	24000 J	11000 J	21000 J
BENZO(K)FLUORANTHENE	14000 J	42000 J	22000	37000 J
1,1'-BIPHENYL	19000 U	42000 U	19000 U	41000 U
BUTYL BENZYL PHTHALATE	19000 U	42000 U	19000 U	41000 U
DI-N-BUTYLPHTHALATE	19000 U	42000 U	19000 U	41000 U
CAPROLACTAM	19000 U	42000 U	19000 U	41000 U
CARBAZOLE	2200 J	24000 J	4000 J	9300 J
INDENO(1,2,3-CD)PYRENE	11000 J	24000 J	10000 J	21000 J
4-CHLOROANILINE	19000 U	42000 U	19000 U	41000 U
BIS(-2-CHLOROETHOXY)METHANE	19000 U	42000 U	19000 U	41000 U
BIS(2-CHLOROETHYL)ETHER	19000 U	42000 U	19000 U	41000 U
2-CHLORONAPHTHALENE	19000 U	42000 U	19000 U	41000 U
2-CHLOROPHENOL	19000 U	42000 U	19000 U	41000 U
2,2'-OXYBIS(1-CHLOROPROPANE)	19000 U	42000 U	19000 U	41000 U
CHRYSENE	15000 J	74000	32000	60000
DIBENZO(A,H)ANTHRACENE	4800 J	12000 J	3400 J	9800 J
DIBENZOFURAN	19000 U	8200 J	2600 J	11000 J
3,3'-DICHLOROBENZIDINE	19000 U	42000 U	19000 U	41000 U
2,4-DICHLOROPHENOL	19000 U	42000 U	19000 U	41000 U
DIETHYLPHTHALATE	19000 U	42000 U	19000 U	41000 U
DIMETHYL PHTHALATE	19000 U	42000 U	19000 U	41000 U
2,4-DIMETHYLPHENOL	19000 U	42000 U	19000 U	41000 U
2,4-DINITROPHENOL	100000 U	220000 U	100000 U	210000 U
2,4-DINITROTOLUENE	19000 U	42000 U	19000 U	41000 U
2,6-DINITROTOLUENE	19000 U	42000 U	19000 U	41000 U
BIS(2-ETHYLHEXYL)PHTHALATE	19000 U	5600 J	9100 J	12000 J
FLUORANTHENE	20000	180000	140000	170000
FLUORENE	19000 U	29000 J	5500 J	16000 J
HEXACHLOROBENZENE	19000 U	42000 U	19000 U	41000 U
HEXACHLOROBUTADIENE	19000 U	42000 U	19000 U	41000 U
HEXACHLOROCYCLOPENTADIENE	19000 U	42000 U	19000 U	41000 U
HEXACHLOROETHANE	19000 U	42000 U	19000 U	41000 U
ISOPHORONE	19000 U	42000 U	19000 U	41000 U
2-METHYLNAPHTHALENE	19000 U	42000 U	19000 U	41000 U
4,6-DINITRO-2-METHYLPHENOL	100000 U	220000 U	100000 U	210000 U
4-CHLORO-3-METHYLPHENOL	19000 U	42000 U	6200 J	5400 J
2-METHYLPHENOL	19000 U	42000 U	19000 U	41000 U
4-METHYLPHENOL	19000 U	42000 U	19000 U	41000 U
NAPHTHALENE	19000 U	42000 U	19000 U	41000 U
2-NITROANILINE	100000 U	220000 U	100000 U	210000 U
3-NITROANILINE	100000 U	220000 U	100000 U	210000 U
4-NITROANILINE	100000 U	220000 U	100000 U	210000 U
NITROBENZENE	19000 U	42000 U	19000 U	41000 U
2-NITROPHENOL	19000 U	42000 U	19000 U	41000 U
4-NITROPHENOL	100000 U	220000 U	100000 U	210000 U
N-NITROSODIPHENYLAMINE	19000 U	42000 U	19000 U	41000 U
DI-N-OCTYL PHTHALATE	19000 U	42000 U	19000 U	41000 U
PENTACHLOROPHENOL	100000 U	220000 U	100000 U	210000 U
PHENANTHRENE	4500 J	140000	33000	75000
PHENOL	19000 U	42000 U	19000 U	41000 U
4-BROMOPHENYL-PHENYLETHER	19000 U	42000 U	19000 U	41000 U
4-CHLOROPHENYL-PHENYLETHER	19000 U	42000 U	19000 U	41000 U
N-NITROSO-DI-N-PROPYLAMINE	19000 U	42000 U	19000 U	41000 U
PYRENE	24000	100000	86000	100000
2,4,6-TRICHLOROPHENOL	19000 U	42000 U	19000 U	41000 U
2,4,5-TRICHLOROPHENOL	19000 U	42000 U	19000 U	41000 U
TERPHENYL-d14	0 D	0 D	0 D	0 D
NITROBENZENE-d5	0 D	0 D	0 D	0 D
PHENOL-d6	0 D	0 D	0 D	0 D
2-FLUOROBIPHENYL	0 D	0 D	0 D	0 D
2-FLUOROPHENOL	0 D	0 D	0 D	0 D
2,4,6-TRIBROMOPHENOL	0 D	0 D	0 D	0 D

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)			
VOC ANALYTE	SAND-103	SAND-104	SAND-105	SAND-106
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
2-BUTANONE (MEK)				
METHYL-TERT-BUTYL ETHER				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLOROETHANE				
CHLOROFORM				
CHLOROMETHANE				
1,2-DIBROMO-3-CHLOROPROPANE				
CYCLOHEXANE				
DIBROMOCHLOROMETHANE				
1,2-DIBROMOETHANE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,2-DICHLOROBENZENE				
DICHLORODIFLUOROMETHANE				
1,1-DICHLOROETHANE				
1,2-DICHLOROETHANE				
1,1-DICHLOROETHENE				
CIS-1,2-DICHLOROETHENE				
TRANS-1,2-DICHLOROETHENE				
1,2-DICHLOROPROPANE				
CIS-1,3-DICHLOROPROPENE				
TRANS-1,3-DICHLOROPROPENE				
ETHYLBENZENE				
2-HEXANONE				
ISOPROPYLBENZENE				
METHYL ACETATE				
METHYLCYCLOHEXANE				
METHYLENE CHLORIDE				
4-METHYL-2-PENTANONE (MIBK)				
STYRENE				
1,1,2,2-TETRACHLOROETHANE				
TETRACHLOROETHENE				
TOLUENE				
1,2,4-TRICHLOROBENZENE				
1,1,1-TRICHLOROETHANE				
1,1,2-TRICHLOROETHANE				
TRICHLOROETHENE				
TRICHLOROFLUOROMETHANE				
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE				
VINYL CHLORIDE				
O-XYLENE				
M+P-XYLENE				

DIESEL RANGE ORGANICS	DIESEL RANGE ORGANICS (ug/kg)			
DIESEL RANGE ORGANICS			29000000	18000000

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)							
SVOC ANALYTE	SAND-107		SAND-108		SAND-022		WB-006	
ACENAPHTHENE	22000	J	12000	J	8500	J	130000	U
ACENAPHTHYLENE	9700	J	7500	J	11000	J	130000	U
ACETOPHENONE	40000	U	20000	U	19000	U	130000	U
ANTHRACENE	64000		26000		23000		150000	
ATRAZINE	40000	U	20000	U	19000	U	130000	U
BENZALDEHYDE	40000	U	20000	U	19000	U	130000	U
BENZO(A)ANTHRACENE	68000		45000		40000		470000	
BENZO(A)PYRENE	39000	J	30000		27000		230000	
BENZO(B)FLUORANTHENE	46000		45000		51000		230000	
BENZO(G,H,I)PERYLENE	22000	J	23000		26000		130000	U
BENZO(K)FLUORANTHENE	43000		34000		38000		260000	
1,1'-BIPHENYL	40000	U	20000	U	4300	J	130000	U
BUTYL BENZYL PHTHALATE	40000	U	20000	U	19000	U	130000	U
DI-N-BUTYLPHTHALATE	40000	U	20000	U	19000	U	130000	U
CAPROLACTAM	40000	U	20000	U	19000	U	130000	U
CARBAZOLE	16000	J	7500	J	6700	J	130000	U
INDENO(1,2,3-CD)PYRENE	23000	J	21000		24000		130000	U
4-CHLOROANILINE	40000	U	20000	U	19000	U	130000	U
BIS(-2-CHLOROETHOXY)METHANE	40000	U	20000	U	19000	U	130000	U
BIS(2-CHLOROETHYL)ETHER	40000	U	20000	U	19000	U	130000	U
2-CHLORONAPHTHALENE	40000	U	20000	U	19000	U	130000	U
2-CHLOROPHENOL	40000	U	20000	U	19000	U	130000	U
2,2'-OXYBIS(1-CHLOROPROPANE)	40000	U	20000	U	19000	U	130000	U
CHRYSENE	80000		50000		49000		510000	
DIBENZO(A,H)ANTHRACENE	11000	J	8000	J	8600	J	130000	U
DIBENZOFURAN	16000	J	12000	J	16000	J	130000	U
3,3'-DICHLOROBENZIDINE	40000	U	20000	U	19000	U	130000	U
2,4-DICHLOROPHENOL	40000	U	20000	U	19000	U	130000	U
DIETHYLPHTHALATE	40000	U	20000	U	19000	U	130000	U
DIMETHYL PHTHALATE	40000	U	20000	U	19000	U	130000	U
2,4-DIMETHYLPHENOL	40000	U	20000	U	19000	U	130000	U
2,4-DINITROPHENOL	210000	U	100000	U	100000	U	680000	U
2,4-DINITROTOLUENE	40000	U	20000	U	19000	U	130000	U
2,6-DINITROTOLUENE	40000	U	20000	U	19000	U	130000	U
BIS(2-ETHYLHEXYL)PHTHALATE	9900	J	3600	J	2300	J	130000	U
FLUORANTHENE	250000		120000		130000		1500000	
FLUORENE	28000	J	11000	J	7500	J	130000	U
HEXACHLOROBENZENE	40000	U	20000	U	19000	U	130000	U
HEXACHLOROBUTADIENE	40000	U	20000	U	19000	U	130000	U
HEXACHLOROCYCLOPENTADIENE	40000	U	20000	U	19000	U	130000	U
HEXACHLOROETHANE	40000	U	20000	U	19000	U	130000	U
ISOPHORONE	40000	U	20000	U	19000	U	130000	U
2-METHYLNAPHTHALENE	40000	U	20000	U	11000	J	130000	U
4,6-DINITRO-2-METHYLPHENOL	210000	U	100000	U	100000	U	680000	U
4-CHLORO-3-METHYLPHENOL	11000	J	20000	U	19000	U	130000	U
2-METHYLPHENOL	40000	U	20000	U	19000	U	130000	U
4-METHYLPHENOL	40000	U	20000	U	2300	J	130000	U
NAPHTHALENE	40000	U	2900	J	40000		130000	U
2-NITROANILINE	210000	U	100000	U	100000	U	680000	U
3-NITROANILINE	210000	U	100000	U	100000	U	680000	U
4-NITROANILINE	210000	U	100000	U	100000	U	680000	U
NITROBENZENE	40000	U	20000	U	19000	U	130000	U
2-NITROPHENOL	40000	U	20000	U	19000	U	130000	U
4-NITROPHENOL	210000	U	100000	U	100000	U	680000	U
N-NITROSODIPHENYLAMINE	40000	U	20000	U	19000	U	130000	U
DI-N-OCTYL PHTHALATE	40000	U	20000	U	19000	U	130000	U
PENTACHLOROPHENOL	210000	U	100000	U	100000	U	680000	U
PHENANTHRENE	130000		93000		53000		430000	
PHENOL	40000	U	20000	U	3600	J	130000	U
4-BROMOPHENYL-PHENYLETHER	40000	U	20000	U	19000	U	130000	U
4-CHLOROPHENYL-PHENYLETHER	40000	U	20000	U	19000	U	130000	U
N-NITROSO-DI-N-PROPYLAMINE	40000	U	20000	U	19000	U	130000	U
PYRENE	130000		92000		93000		1200000	
2,4,6-TRICHLOROPHENOL	40000	U	20000	U	19000	U	130000	U
2,4,5-TRICHLOROPHENOL	40000	U	20000	U	19000	U	130000	U
TERPHENYL-d14	0	D	0	D	0	D	0	D
NITROBENZENE-d5	0	D	0	D	0	D	0	D
PHENOL-d6	0	D	0	D	0	D	0	D
2-FLUOROBIPHENYL	0	D	0	D	0	D	0	D
2-FLUOROPHENOL	0	D	0	D	0	D	0	D
2,4,6-TRIBROMOPHENOL	0	D	0	D	0	D	0	D

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)			
VOC ANALYTE	SAND-107	SAND-108	SAND-022	WB-006
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
2-BUTANONE (MEK)				
METHYL-TERT-BUTYL ETHER				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLOROETHANE				
CHLOROFORM				
CHLOROMETHANE				
1,2-DIBROMO-3-CHLOROPROPANE				
CYCLOHEXANE				
DIBROMOCHLOROMETHANE				
1,2-DIBROMOETHANE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,2-DICHLOROBENZENE				
DICHLORODIFLUOROMETHANE				
1,1-DICHLOROETHANE				
1,2-DICHLOROETHANE				
1,1-DICHLOROETHENE				
CIS-1,2-DICHLOROETHENE				
TRANS-1,2-DICHLOROETHENE				
1,2-DICHLOROPROPANE				
CIS-1,3-DICHLOROPROPENE				
TRANS-1,3-DICHLOROPROPENE				
ETHYLBENZENE				
2-HEXANONE				
ISOPROPYLBENZENE				
METHYL ACETATE				
METHYLCYCLOHEXANE				
METHYLENE CHLORIDE				
4-METHYL-2-PENTANONE (MIBK)				
STYRENE				
1,1,2,2-TETRACHLOROETHANE				
TETRACHLOROETHENE				
TOLUENE				
1,2,4-TRICHLOROBENZENE				
1,1,1-TRICHLOROETHANE				
1,1,2-TRICHLOROETHANE				
TRICHLOROETHENE				
TRICHLOROFLUOROMETHANE				
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE				
VINYL CHLORIDE				
O-XYLENE				
M+P-XYLENE				

DIESEL RANGE ORGANICS	DIESEL RANGE ORGANICS (ug/kg)			
DIESEL RANGE ORGANICS	33000000	5700000	4700000	63000000

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)							
SVOC ANALYTE	WB-008		WB-009		WB-010		WB-011	
ACENAPHTHENE	120000		130000	U	180000		260000	
ACENAPHTHYLENE	66000	U	130000	U	130000	U	130000	U
ACETOPHENONE	66000	U	130000	U	130000	U	130000	U
ANTHRACENE	180000		420000		410000		870000	
ATRAZINE	66000	U	130000	U	130000	U	130000	U
BENZALDEHYDE	66000	U	130000	U	130000	U	130000	U
BENZO(A)ANTHRACENE	270000		410000		540000		890000	
BENZO(A)PYRENE	120000		220000		340000		450000	
BENZO(B)FLUORANTHENE	160000		250000		340000		520000	
BENZO(G,H,I)PERYLENE	66000	U	130000	U	220000		230000	
BENZO(K)FLUORANTHENE	150000		220000		340000		510000	
1,1'-BIPHENYL	66000	U	130000	U	130000	U	130000	U
BUTYL BENZYL PHTHALATE	66000	U	130000	U	130000	U	130000	U
DI-N-BUTYLPHTHALATE	66000	U	130000	U	130000	U	130000	U
CAPROLACTAM	66000	U	130000	U	130000	U	130000	U
CARBAZOLE	100000		200000		230000		750000	
INDENO(1,2,3-CD)PYRENE	66000	U	130000	U	200000		220000	
4-CHLOROANILINE	66000	U	130000	U	130000	U	130000	U
BIS(-2-CHLOROETHOXY)METHANE	66000	U	130000	U	130000	U	130000	U
BIS(2-CHLOROETHYL)ETHER	66000	U	130000	U	130000	U	130000	U
2-CHLORONAPHTHALENE	66000	U	130000	U	130000	U	130000	U
2-CHLOROPHENOL	66000	U	130000	U	130000	U	130000	U
2,2'-OXYBIS(1-CHLOROPROPANE)	66000	U	130000	U	130000	U	130000	U
CHRYSENE	310000		500000		610000		1100000	
DIBENZO(A,H)ANTHRACENE	66000	U	130000	U	130000	U	130000	U
DIBENZOFURAN	130000		130000	U	220000		340000	
3,3'-DICHLOROBENZIDINE	66000	U	130000	U	130000	U	130000	U
2,4-DICHLOROPHENOL	66000	U	130000	U	130000	U	130000	U
DIETHYLPHTHALATE	66000	U	130000	U	130000	U	130000	U
DIMETHYL PHTHALATE	66000	U	130000	U	130000	U	130000	U
2,4-DIMETHYLPHENOL	66000	U	130000	U	130000	U	130000	U
2,4-DINITROPHENOL	340000	U	680000	U	680000	U	680000	U
2,4-DINITROTOLUENE	66000	U	130000	U	130000	U	130000	U
2,6-DINITROTOLUENE	66000	U	130000	U	130000	U	130000	U
BIS(2-ETHYLHEXYL)PHTHALATE	66000	U	130000	U	130000	U	130000	U
FLUORANTHENE	950000		1100000		1400000		2500000	E
FLUORENE	160000		160000		270000		350000	
HEXACHLOROBENZENE	66000	U	130000	U	130000	U	130000	U
HEXACHLOROBUTADIENE	66000	U	130000	U	130000	U	130000	U
HEXACHLOROCYCLOPENTADIENE	66000	U	130000	U	130000	U	130000	U
HEXACHLOROETHANE	66000	U	130000	U	130000	U	130000	U
ISOPHORONE	66000	U	130000	U	130000	U	130000	U
2-METHYLNAPHTHALENE	66000	U	130000	U	130000	U	130000	U
4,6-DINITRO-2-METHYLPHENOL	340000	U	680000	U	680000	U	680000	U
4-CHLORO-3-METHYLPHENOL	66000	U	130000	U	130000	U	130000	U
2-METHYLPHENOL	66000	U	130000	U	130000	U	130000	U
4-METHYLPHENOL	66000	U	130000	U	130000	U	130000	U
NAPHTHALENE	66000	U	130000	U	130000	U	130000	U
2-NITROANILINE	340000	U	680000	U	680000	U	680000	U
3-NITROANILINE	340000	U	680000	U	680000	U	680000	U
4-NITROANILINE	340000	U	680000	U	680000	U	680000	U
NITROBENZENE	66000	U	130000	U	130000	U	130000	U
2-NITROPHENOL	66000	U	130000	U	130000	U	130000	U
4-NITROPHENOL	340000	U	680000	U	680000	U	680000	U
N-NITROSODIPHENYLAMINE	66000	U	130000	U	130000	U	130000	U
DI-N-OCTYL PHTHALATE	66000	U	130000	U	130000	U	130000	U
PENTACHLOROPHENOL	340000	U	680000	U	680000	U	680000	U
PHENANTHRENE	850000		1200000		1600000		2700000	E
PHENOL	66000	U	130000	U	130000	U	130000	U
4-BROMOPHENYL-PHENYLETHER	66000	U	130000	U	130000	U	130000	U
4-CHLOROPHENYL-PHENYLETHER	66000	U	130000	U	130000	U	130000	U
N-NITROSO-DI-N-PROPYLAMINE	66000	U	130000	U	130000	U	130000	U
PYRENE	570000		770000		1000000		1700000	
2,4,6-TRICHLOROPHENOL	66000	U	130000	U	130000	U	130000	U
2,4,5-TRICHLOROPHENOL	66000	U	130000	U	130000	U	130000	U
TERPHENYL-d14	0	D	0	D	0	D	0	D
NITROBENZENE-d5	0	D	0	D	0	D	0	D
PHENOL-d6	0	D	0	D	0	D	0	D
2-FLUOROBIPHENYL	0	D	0	D	0	D	0	D
2-FLUOROPHENOL	0	D	0	D	0	D	0	D
2,4,6-TRIBROMOPHENOL	0	D	0	D	0	D	0	D

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)			
VOC ANALYTE	WB-008	WB-009	WB-010	WB-011
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
2-BUTANONE (MEK)				
METHYL-TERT-BUTYL ETHER				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLOROETHANE				
CHLOROFORM				
CHLOROMETHANE				
1,2-DIBROMO-3-CHLOROPROPANE				
CYCLOHEXANE				
DIBROMOCHLOROMETHANE				
1,2-DIBROMOETHANE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,2-DICHLOROBENZENE				
DICHLORODIFLUOROMETHANE				
1,1-DICHLOROETHANE				
1,2-DICHLOROETHANE				
1,1-DICHLOROETHENE				
CIS-1,2-DICHLOROETHENE				
TRANS-1,2-DICHLOROETHENE				
1,2-DICHLOROPROPANE				
CIS-1,3-DICHLOROPROPENE				
TRANS-1,3-DICHLOROPROPENE				
ETHYLBENZENE				
2-HEXANONE				
ISOPROPYLBENZENE				
METHYL ACETATE				
METHYLCYCLOHEXANE				
METHYLENE CHLORIDE				
4-METHYL-2-PENTANONE (MIBK)				
STYRENE				
1,1,2,2-TETRACHLOROETHANE				
TETRACHLOROETHENE				
TOLUENE				
1,2,4-TRICHLOROBENZENE				
1,1,1-TRICHLOROETHANE				
1,1,2-TRICHLOROETHANE				
TRICHLOROETHENE				
TRICHLOROFLUOROMETHANE				
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE				
VINYL CHLORIDE				
O-XYLENE				
M+P-XYLENE				

DIESEL RANGE ORGANICS	DIESEL RANGE ORGANICS (ug/kg)			
DIESEL RANGE ORGANICS		37000000	25000000	44000000

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)							
SVOC ANALYTE	WB-011 (2)		WB-001		WB-002		WB-003	
ACENAPHTHENE	260000	U	130000	U	130000	U	130000	U
ACENAPHTHYLENE	260000	U	130000	U	130000	U	130000	U
ACETOPHENONE	260000	U	130000	U	130000	U	130000	U
ANTHRACENE	890000	D	170000		260000		210000	
ATRAZINE	260000	U	130000	U	130000	U	130000	U
BENZALDEHYDE	260000	U	130000	U	130000	U	130000	U
BENZO(A)ANTHRACENE	930000	D	370000		190000		150000	
BENZO(A)PYRENE	450000	D	190000		130000	U	130000	U
BENZO(B)FLUORANTHENE	580000	D	260000		130000	U	130000	U
BENZO(G,H,I)PERYLENE	260000	U	130000	U	130000	U	130000	U
BENZO(K)FLUORANTHENE	500000	D	220000		130000	U	130000	U
1,1'-BIPHENYL	260000	U	130000	U	130000	U	130000	U
BUTYL BENZYL PHTHALATE	260000	U	130000	U	130000	U	130000	U
DI-N-BUTYLPHTHALATE	260000	U	130000	U	130000	U	130000	U
CAPROLACTAM	260000	U	130000	U	130000	U	130000	U
CARBAZOLE	780000	D	130000	U	250000		220000	
INDENO(1,2,3-CD)PYRENE	260000	U	130000	U	130000	U	130000	U
4-CHLOROANILINE	260000	U	130000	U	130000	U	130000	U
BIS(-2-CHLOROETHOXY)METHANE	260000	U	130000	U	130000	U	130000	U
BIS(2-CHLOROETHYL)ETHER	260000	U	130000	U	130000	U	130000	U
2-CHLORONAPHTHALENE	260000	U	130000	U	130000	U	130000	U
2-CHLOROPHENOL	260000	U	130000	U	130000	U	130000	U
2,2'-OXYBIS(1-CHLOROPROPANE)	260000	U	130000	U	130000	U	130000	U
CHRYSENE	1200000	D	460000		240000		200000	
DIBENZO(A,H)ANTHRACENE	260000	U	130000	U	130000	U	130000	U
DIBENZOFURAN	350000	D	130000	U	190000		160000	
3,3'-DICHLOROBENZIDINE	260000	U	130000	U	130000	U	130000	U
2,4-DICHLOROPHENOL	260000	U	130000	U	130000	U	130000	U
DIETHYLPHTHALATE	260000	U	130000	U	130000	U	130000	U
DIMETHYL PHTHALATE	260000	U	130000	U	130000	U	130000	U
2,4-DIMETHYLPHENOL	260000	U	130000	U	130000	U	130000	U
2,4-DINITROPHENOL	1400000	U	680000	U	680000	U	680000	U
2,4-DINITROTOLUENE	260000	U	130000	U	130000	U	130000	U
2,6-DINITROTOLUENE	260000	U	130000	U	130000	U	130000	U
BIS(2-ETHYLHEXYL)PHTHALATE	260000	U	130000	U	130000	U	130000	U
FLUORANTHENE	2800000	D	1200000		570000		500000	
FLUORENE	370000	D	130000	U	130000	U	130000	U
HEXACHLOROBENZENE	260000	U	130000	U	130000	U	130000	U
HEXACHLOROBUTADIENE	260000	U	130000	U	130000	U	130000	U
HEXACHLOROCYCLOPENTADIENE	260000	U	130000	U	130000	U	130000	U
HEXACHLOROETHANE	260000	U	130000	U	130000	U	130000	U
ISOPHORONE	260000	U	130000	U	130000	U	130000	U
2-METHYLNAPHTHALENE	260000	U	130000	U	130000	U	130000	U
4,6-DINITRO-2-METHYLPHENOL	1400000	U	680000	U	680000	U	680000	U
4-CHLORO-3-METHYLPHENOL	260000	U	130000	U	130000	U	130000	U
2-METHYLPHENOL	260000	U	130000	U	130000	U	130000	U
4-METHYLPHENOL	260000	U	130000	U	130000	U	130000	U
NAPHTHALENE	260000	U	130000	U	130000	U	130000	U
2-NITROANILINE	1400000	U	680000	U	680000	U	680000	U
3-NITROANILINE	1400000	U	680000	U	680000	U	680000	U
4-NITROANILINE	1400000	U	680000	U	680000	U	680000	U
NITROBENZENE	260000	U	130000	U	130000	U	130000	U
2-NITROPHENOL	260000	U	130000	U	130000	U	130000	U
4-NITROPHENOL	1400000	U	680000	U	680000	U	680000	U
N-NITROSODIPHENYLAMINE	260000	U	130000	U	130000	U	130000	U
DI-N-OCTYL PHTHALATE	260000	U	130000	U	130000	U	130000	U
PENTACHLOROPHENOL	1400000	U	680000	U	680000	U	680000	U
PHENANTHRENE	3100000	D	260000		1300000		1000000	
PHENOL	260000	U	130000	U	130000	U	130000	U
4-BROMOPHENYL-PHENYLETHER	260000	U	130000	U	130000	U	130000	U
4-CHLOROPHENYL-PHENYLETHER	260000	U	130000	U	130000	U	130000	U
N-NITROSO-DI-N-PROPYLAMINE	260000	U	130000	U	130000	U	130000	U
PYRENE	2000000	D	1200000		390000		310000	
2,4,6-TRICHLOROPHENOL	260000	U	130000	U	130000	U	130000	U
2,4,5-TRICHLOROPHENOL	260000	U	130000	U	130000	U	130000	U
TERPHENYL-d14	0	D	0	D	0	D	0	D
NITROBENZENE-d5	0	D	0	D	0	D	0	D
PHENOL-d6	0	D	0	D	0	D	0	D
2-FLUOROBIPHENYL	0	D	0	D	0	D	0	D
2-FLUOROPHENOL	0	D	0	D	0	D	0	D
2,4,6-TRIBROMOPHENOL	0	D	0	D	0	D	0	D

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)			
VOC ANALYTE	WB-011 (2)	WB-001	WB-002	WB-003
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
2-BUTANONE (MEK)				
METHYL-TERT-BUTYL ETHER				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLOROETHANE				
CHLOROFORM				
CHLOROMETHANE				
1,2-DIBROMO-3-CHLOROPROPANE				
CYCLOHEXANE				
DIBROMOCHLOROMETHANE				
1,2-DIBROMOETHANE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,2-DICHLOROBENZENE				
DICHLORODIFLUOROMETHANE				
1,1-DICHLOROETHANE				
1,2-DICHLOROETHANE				
1,1-DICHLOROETHENE				
CIS-1,2-DICHLOROETHENE				
TRANS-1,2-DICHLOROETHENE				
1,2-DICHLOROPROPANE				
CIS-1,3-DICHLOROPROPENE				
TRANS-1,3-DICHLOROPROPENE				
ETHYLBENZENE				
2-HEXANONE				
ISOPROPYLBENZENE				
METHYL ACETATE				
METHYLCYCLOHEXANE				
METHYLENE CHLORIDE				
4-METHYL-2-PENTANONE (MIBK)				
STYRENE				
1,1,2,2-TETRACHLOROETHANE				
TETRACHLOROETHENE				
TOLUENE				
1,2,4-TRICHLOROBENZENE				
1,1,1-TRICHLOROETHANE				
1,1,2-TRICHLOROETHANE				
TRICHLOROETHENE				
TRICHLOROFLUOROMETHANE				
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE				
VINYL CHLORIDE				
O-XYLENE				
M+P-XYLENE				
DIESEL RANGE ORGANICS				
DIESEL RANGE ORGANICS				

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)							
SVOC ANALYTE	WB-004		WB-100		WB-101		SED-013	SED-013 (2)
ACENAPHTHENE	66000	U	150000		130000	U		
ACENAPHTHYLENE	66000	U	130000	U	130000	U		
ACETOPHENONE	66000	U	130000	U	130000	U		
ANTHRACENE	80000		540000		470000			
ATRAZINE	66000	U	130000	U	130000	U		
BENZALDEHYDE	66000	U	130000	U	130000	U		
BENZO(A)ANTHRACENE	190000		730000		620000			
BENZO(A)PYRENE	150000		390000		320000			
BENZO(B)FLUORANTHENE	210000		460000		400000			
BENZO(G,H,I)PERYLENE	110000		210000		170000			
BENZO(K)FLUORANTHENE	170000		410000		300000			
1,1'-BIPHENYL	66000	U	130000	U	130000	U		
BUTYL BENZYL PHTHALATE	66000	U	130000	U	130000	U		
DI-N-BUTYLPHTHALATE	66000	U	130000	U	130000	U		
CAPROLACTAM	66000	U	130000	U	130000	U		
CARBAZOLE	66000	U	370000		310000			
INDENO(1,2,3-CD)PYRENE	100000		200000		160000			
4-CHLOROANILINE	66000	U	130000	U	130000	U		
BIS(-2-CHLOROETHOXY)METHANE	66000	U	130000	U	130000	U		
BIS(2-CHLOROETHYL)ETHER	66000	U	130000	U	130000	U		
2-CHLORONAPHTHALENE	66000	U	130000	U	130000	U		
2-CHLOROPHENOL	66000	U	130000	U	130000	U		
2,2'-OXYBIS(1-CHLOROPROPANE)	66000	U	130000	U	130000	U		
CHRYSENE	320000		900000		760000			
DIBENZO(A,H)ANTHRACENE	66000	U	130000	U	130000	U		
DIBENZOFURAN	66000	U	150000		130000	U		
3,3'-DICHLOROBENZIDINE	66000	U	130000	U	130000	U		
2,4-DICHLOROPHENOL	66000	U	130000	U	130000	U		
DIETHYLPHTHALATE	66000	U	130000	U	130000	U		
DIMETHYL PHTHALATE	66000	U	130000	U	130000	U		
2,4-DIMETHYLPHENOL	66000	U	130000	U	130000	U		
2,4-DINITROPHENOL	340000	U	680000	U	680000	U		
2,4-DINITROTOLUENE	66000	U	130000	U	130000	U		
2,6-DINITROTOLUENE	66000	U	130000	U	130000	U		
BIS(2-ETHYLHEXYL)PHTHALATE	66000	U	130000	U	130000	U		
FLUORANTHENE	250000		1800000		1600000			
FLUORENE	66000	U	270000		200000			
HEXACHLOROBENZENE	66000	U	130000	U	130000	U		
HEXACHLOROBUTADIENE	66000	U	130000	U	130000	U		
HEXACHLOROCYCLOPENTADIENE	66000	U	130000	U	130000	U		
HEXACHLOROETHANE	66000	U	130000	U	130000	U		
ISOPHORONE	66000	U	130000	U	130000	U		
2-METHYLNAPHTHALENE	66000	U	130000	U	130000	U		
4,6-DINITRO-2-METHYLPHENOL	340000	U	680000	U	680000	U		
4-CHLORO-3-METHYLPHENOL	66000	U	130000	U	130000	U		
2-METHYLPHENOL	66000	U	130000	U	130000	U		
4-METHYLPHENOL	66000	U	130000	U	130000	U		
NAPHTHALENE	66000	U	130000	U	130000	U		
2-NITROANILINE	340000	U	680000	U	680000	U		
3-NITROANILINE	340000	U	680000	U	680000	U		
4-NITROANILINE	340000	U	680000	U	680000	U		
NITROBENZENE	66000	U	130000	U	130000	U		
2-NITROPHENOL	66000	U	130000	U	130000	U		
4-NITROPHENOL	340000	U	680000	U	680000	U		
N-NITROSODIPHENYLAMINE	66000	U	130000	U	130000	U		
DI-N-OCTYL PHTHALATE	66000	U	130000	U	130000	U		
PENTACHLOROPHENOL	340000	U	680000	U	680000	U		
PHENANTHRENE	87000		2100000		1700000			
PHENOL	66000	U	130000	U	130000	U		
4-BROMOPHENYL-PHENYLETHER	66000	U	130000	U	130000	U		
4-CHLOROPHENYL-PHENYLETHER	66000	U	130000	U	130000	U		
N-NITROSO-DI-N-PROPYLAMINE	66000	U	130000	U	130000	U		
PYRENE	250000		1400000		1100000			
2,4,6-TRICHLOROPHENOL	66000	U	130000	U	130000	U		
2,4,5-TRICHLOROPHENOL	66000	U	130000	U	130000	U		
TERPHENYL-d14	0	D	0	D	0	D		
NITROBENZENE-d5	0	D	0	D	0	D		
PHENOL-d6	0	D	0	D	0	D		
2-FLUOROBIPHENYL	0	D	0	D	0	D		
2-FLUOROPHENOL	0	D	0	D	0	D		
2,4,6-TRIBROMOPHENOL	0	D	0	D	0	D		

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)				
VOC ANALYTE	WB-004	WB-100	WB-101	SED-013	SED-013 (2)
ACETONE				78	55
BENZENE				5.4 U	5.4 U
BROMODICHLOROMETHANE				5.4 U	5.4 U
BROMOFORM				5.4 U	5.4 U
BROMOMETHANE				5.4 U	5.4 U
2-BUTANONE (MEK)				11 U	11 U
METHYL-TERT-BUTYL ETHER				5.4 U	5.4 U
CARBON DISULFIDE				11 U	11 U
CARBON TETRACHLORIDE				5.4 U	5.4 U
CHLOROBENZENE				5.4 U	5.4 U
CHLOROETHANE				5.4 U	5.4 U
CHLOROFORM				5.4 U	5.4 U
CHLOROMETHANE				5.4 U	5.4 U
1,2-DIBROMO-3-CHLOROPROPANE				5.4 U	5.4 U
CYCLOHEXANE				5.4 U	5.4 U
DIBROMOCHLOROMETHANE				5.4 U	5.4 U
1,2-DIBROMOETHANE				5.4 U	5.4 U
1,3-DICHLOROBENZENE				5.4 U	5.4 U
1,4-DICHLOROBENZENE				5.4 U	5.4 U
1,2-DICHLOROBENZENE				5.4 U	5.4 U
DICHLORODIFLUOROMETHANE				5.4 U	5.4 U
1,1-DICHLOROETHANE				5.4 U	5.4 U
1,2-DICHLOROETHANE				5.4 U	5.4 U
1,1-DICHLOROETHENE				5.4 U	5.4 U
CIS-1,2-DICHLOROETHENE				5.4 U	5.4 U
TRANS-1,2-DICHLOROETHENE				5.4 U	5.4 U
1,2-DICHLOROPROPANE				5.4 U	5.4 U
CIS-1,3-DICHLOROPROPENE				5.4 U	5.4 U
TRANS-1,3-DICHLOROPROPENE				5.4 U	5.4 U
ETHYLBENZENE				5.4 U	5.4 U
2-HEXANONE				11 U	11 U
ISOPROPYLBENZENE				5.4 U	5.4 U
METHYL ACETATE				11 U	11 U
METHYLCYCLOHEXANE				5.4 U	5.4 U
METHYLENE CHLORIDE				9.4	6.9
4-METHYL-2-PENTANONE (MIBK)				11 U	11 U
STYRENE				5.4 U	5.4 U
1,1,2,2-TETRACHLOROETHANE				5.4 U	5.4 U
TETRACHLOROETHENE				5.4 U	5.4 U
TOLUENE				5.4 U	5.4 U
1,2,4-TRICHLOROBENZENE				5.4 U	5.4 U
1,1,1-TRICHLOROETHANE				5.4 U	5.4 U
1,1,2-TRICHLOROETHANE				5.4 U	5.4 U
TRICHLOROETHENE				5.4 U	5.4 U
TRICHLOROFLUOROMETHANE				5.4 U	5.4 U
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE				5.4 U	5.4 U
VINYL CHLORIDE				5.4 U	5.4 U
O-XYLENE				5.4 U	5.4 U
M+P-XYLENE				5.4 U	5.4 U
DIESEL RANGE ORGANICS					
DIESEL RANGE ORGANICS					

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)			
SVOC ANALYTE	SED-014	SED-015	SED-015 (2)	SED-016
ACENAPHTHENE	510000 U			
ACENAPHTHYLENE	510000 U			
ACETOPHENONE	510000 U			
ANTHRACENE	510000 U			
ATRAZINE	510000 U			
BENZALDEHYDE	510000 U			
BENZO(A)ANTHRACENE	510000 U			
BENZO(A)PYRENE	510000 U			
BENZO(B)FLUORANTHENE	510000 U			
BENZO(G,H,I)PERYLENE	510000 U			
BENZO(K)FLUORANTHENE	510000 U			
1,1'-BIPHENYL	510000 U			
BUTYL BENZYL PHTHALATE	510000 U			
DI-N-BUTYLPHTHALATE	510000 U			
CAPROLACTAM	510000 U			
CARBAZOLE	510000 U			
INDENO(1,2,3-CD)PYRENE	510000 U			
4-CHLOROANILINE	510000 U			
BIS(-2-CHLOROETHOXY)METHANE	510000 U			
BIS(2-CHLOROETHYL)ETHER	510000 U			
2-CHLORONAPHTHALENE	510000 U			
2-CHLOROPHENOL	510000 U			
2,2'-OXYBIS(1-CHLOROPROPANE)	510000 U			
CHRYSENE	510000 U			
DIBENZO(A,H)ANTHRACENE	510000 U			
DIBENZOFURAN	510000 U			
3,3'-DICHLOROBENZIDINE	510000 U			
2,4-DICHLOROPHENOL	510000 U			
DIETHYLPHTHALATE	510000 U			
DIMETHYL PHTHALATE	510000 U			
2,4-DIMETHYLPHENOL	510000 U			
2,4-DINITROPHENOL	2600000 U			
2,4-DINITROTOLUENE	510000 U			
2,6-DINITROTOLUENE	510000 U			
BIS(2-ETHYLHEXYL)PHTHALATE	510000 U			
FLUORANTHENE	510000 U			
FLUORENE	510000 U			
HEXACHLOROBENZENE	510000 U			
HEXACHLOROBUTADIENE	510000 U			
HEXACHLOROCYCLOPENTADIENE	510000 U			
HEXACHLOROETHANE	510000 U			
ISOPHORONE	510000 U			
2-METHYLNAPHTHALENE	510000 U			
4,6-DINITRO-2-METHYLPHENOL	2600000 U			
4-CHLORO-3-METHYLPHENOL	510000 U			
2-METHYLPHENOL	510000 U			
4-METHYLPHENOL	510000 U			
NAPHTHALENE	510000 U			
2-NITROANILINE	2600000 U			
3-NITROANILINE	2600000 U			
4-NITROANILINE	2600000 U			
NITROBENZENE	510000 U			
2-NITROPHENOL	510000 U			
4-NITROPHENOL	2600000 U			
N-NITROSODIPHENYLAMINE	510000 U			
DI-N-OCTYL PHTHALATE	510000 U			
PENTACHLOROPHENOL	2600000 U			
PHENANTHRENE	510000 U			
PHENOL	510000 U			
4-BROMOPHENYL-PHENYLETHER	510000 U			
4-CHLOROPHENYL-PHENYLETHER	510000 U			
N-NITROSO-DI-N-PROPYLAMINE	510000 U			
PYRENE	510000 U			
2,4,6-TRICHLOROPHENOL	510000 U			
2,4,5-TRICHLOROPHENOL	510000 U			
TERPHENYL-d14	0 D			
NITROBENZENE-d5	0 D			
PHENOL-d6	0 D			
2-FLUOROBIPHENYL	0 D			
2-FLUOROPHENOL	0 D			
2,4,6-TRIBROMOPHENOL	0 D			

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)							
VOC ANALYTE	SED-014		SED-015		SED-015 (2)		SED-016	
ACETONE	5200	U	38	U	38	U	31	U
BENZENE	1300	U	9.6	U	9.6	U	7.8	U
BROMODICHLOROMETHANE	1300	U	9.6	U	9.6	U	7.8	U
BROMOFORM	1300	U	9.6	U	9.6	U	7.8	U
BROMOMETHANE	1300	U	9.6	U	9.6	U	7.8	U
2-BUTANONE (MEK)	2600	U	19	U	19	U	16	U
METHYL-TERT-BUTYL ETHER	1300	U	9.6	U	9.6	U	7.8	U
CARBON DISULFIDE	2600	U	19	U	19	U	16	U
CARBON TETRACHLORIDE	1300	U	9.6	U	9.6	U	7.8	U
CHLOROBENZENE	1300	U	9.6	U	9.6	U	7.8	U
CHLOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
CHLOROFORM	1300	U	9.6	U	9.6	U	7.8	U
CHLOROMETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,2-DIBROMO-3-CHLOROPROPANE	1300	U	9.6	U	9.6	U	7.8	U
CYCLOHEXANE	1300	U	9.6	U	9.6	U	7.8	U
DIBROMOCHLOROMETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,2-DIBROMOETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,3-DICHLOROBENZENE	1300	U	9.6	U	9.6	U	7.8	U
1,4-DICHLOROBENZENE	1300	U	9.6	U	9.6	U	7.8	U
1,2-DICHLOROBENZENE	1300	U	9.6	U	9.6	U	7.8	U
DICHLORODIFLUOROMETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,1-DICHLOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,2-DICHLOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,1-DICHLOROETHENE	1300	U	9.6	U	9.6	U	7.8	U
CIS-1,2-DICHLOROETHENE	1300	U	9.6	U	9.6	U	7.8	U
TRANS-1,2-DICHLOROETHENE	1300	U	9.6	U	9.6	U	7.8	U
1,2-DICHLOROPROPANE	1300	U	9.6	U	9.6	U	7.8	U
CIS-1,3-DICHLOROPROPENE	1300	U	9.6	U	9.6	U	7.8	U
TRANS-1,3-DICHLOROPROPENE	1300	U	9.6	U	9.6	U	7.8	U
ETHYLBENZENE	1300	U	9.6	U	9.6	U	7.8	U
2-HEXANONE	2600	U	19	U	19	U	16	U
ISOPROPYLBENZENE	3600		9.6	U	9.6	U	7.8	U
METHYL ACETATE	2600	U	19	U	19	U	16	U
METHYLCYCLOHEXANE	1300	U	9.6	U	9.6	U	7.8	U
METHYLENE CHLORIDE	1300	U	9.6	U	9.6	U	7.8	U
4-METHYL-2-PENTANONE (MIBK)	2600	U	19	U	19	U	16	U
STYRENE	1300	U	9.6	U	9.6	U	7.8	U
1,1,2,2-TETRACHLOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
TETRACHLOROETHENE	1300	U	9.6	U	9.6	U	7.8	U
TOLUENE	1300	U	9.6	U	9.6	U	7.8	U
1,2,4-TRICHLOROBENZENE	1300	U	9.6	U	9.6	U	7.8	U
1,1,1-TRICHLOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,1,2-TRICHLOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
TRICHLOROETHENE	1300	U	9.6	U	9.6	U	7.8	U
TRICHLOROFLUOROMETHANE	1300	U	9.6	U	9.6	U	7.8	U
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE	1300	U	9.6	U	9.6	U	7.8	U
VINYL CHLORIDE	1300	U	9.6	U	9.6	U	7.8	U
O-XYLENE	1800		9.6	U	9.6	U	7.8	U
M+P-XYLENE	1300	U	9.6	U	9.6	U	7.8	U
DIESEL RANGE ORGANICS								
DIESEL RANGE ORGANICS								

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/kg)			
SVOC ANALYTE	SED-017	SED-022	SED-023	SED-024
ACENAPHTHENE				
ACENAPHTHYLENE				
ACETOPHENONE				
ANTHRACENE				
ATRAZINE				
BENZALDEHYDE				
BENZO(A)ANTHRACENE				
BENZO(A)PYRENE				
BENZO(B)FLUORANTHENE				
BENZO(G,H,I)PERYLENE				
BENZO(K)FLUORANTHENE				
1,1'-BIPHENYL				
BUTYL BENZYL PHTHALATE				
DI-N-BUTYLPHTHALATE				
CAPROLACTAM				
CARBAZOLE				
INDENO(1,2,3-CD)PYRENE				
4-CHLOROANILINE				
BIS(-2-CHLOROETHOXY)METHANE				
BIS(2-CHLOROETHYL)ETHER				
2-CHLORONAPHTHALENE				
2-CHLOROPHENOL				
2,2'-OXYBIS(1-CHLOROPROPANE)				
CHRYSENE				
DIBENZO(A,H)ANTHRACENE				
DIBENZOFURAN				
3,3'-DICHLOROBENZIDINE				
2,4-DICHLOROPHENOL				
DIETHYLPHTHALATE				
DIMETHYL PHTHALATE				
2,4-DIMETHYLPHENOL				
2,4-DINITROPHENOL				
2,4-DINITROTOLUENE				
2,6-DINITROTOLUENE				
BIS(2-ETHYLHEXYL)PHTHALATE				
FLUORANTHENE				
FLUORENE				
HEXACHLOROBENZENE				
HEXACHLOROBUTADIENE				
HEXACHLOROCYCLOPENTADIENE				
HEXACHLOROETHANE				
ISOPHORONE				
2-METHYLNAPHTHALENE				
4,6-DINITRO-2-METHYLPHENOL				
4-CHLORO-3-METHYLPHENOL				
2-METHYLPHENOL				
4-METHYLPHENOL				
NAPHTHALENE				
2-NITROANILINE				
3-NITROANILINE				
4-NITROANILINE				
NITROBENZENE				
2-NITROPHENOL				
4-NITROPHENOL				
N-NITROSODIPHENYLAMINE				
DI-N-OCTYL PHTHALATE				
PENTACHLOROPHENOL				
PHENANTHRENE				
PHENOL				
4-BROMOPHENYL-PHENYLETHER				
4-CHLOROPHENYL-PHENYLETHER				
N-NITROSO-DI-N-PROPYLAMINE				
PYRENE				
2,4,6-TRICHLOROPHENOL				
2,4,5-TRICHLOROPHENOL				
TERPHENYL-d14				
NITROBENZENE-d5				
PHENOL-d6				
2-FLUOROBIPHENYL				
2-FLUOROPHENOL				
2,4,6-TRIBROMOPHENOL				

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/kg)			
VOC ANALYTE	SED-017	SED-022	SED-023	SED-024
ACETONE	24 U			
BENZENE	6.1 U			
BROMODICHLOROMETHANE	6.1 U			
BROMOFORM	6.1 U			
BROMOMETHANE	6.1 U			
2-BUTANONE (MEK)	12 U			
METHYL-TERT-BUTYL ETHER	6.1 U			
CARBON DISULFIDE	12 U			
CARBON TETRACHLORIDE	6.1 U			
CHLOROBENZENE	6.1 U			
CHLOROETHANE	6.1 U			
CHLOROFORM	6.1 U			
CHLOROMETHANE	6.1 U			
1,2-DIBROMO-3-CHLOROPROPANE	6.1 U			
CYCLOHEXANE	6.1 U			
DIBROMOCHLOROMETHANE	6.1 U			
1,2-DIBROMOETHANE	6.1 U			
1,3-DICHLOROBENZENE	6.1 U			
1,4-DICHLOROBENZENE	6.1 U			
1,2-DICHLOROBENZENE	6.1 U			
DICHLORODIFLUOROMETHANE	6.1 U			
1,1-DICHLOROETHANE	6.1 U			
1,2-DICHLOROETHANE	6.1 U			
1,1-DICHLOROETHENE	6.1 U			
CIS-1,2-DICHLOROETHENE	6.1 U			
TRANS-1,2-DICHLOROETHENE	6.1 U			
1,2-DICHLOROPROPANE	6.1 U			
CIS-1,3-DICHLOROPROPENE	6.1 U			
TRANS-1,3-DICHLOROPROPENE	6.1 U			
ETHYLBENZENE	6.1 U			
2-HEXANONE	12 U			
ISOPROPYLBENZENE	6.1 U			
METHYL ACETATE	12 U			
METHYLCYCLOHEXANE	6.1 U			
METHYLENE CHLORIDE	6.1 U			
4-METHYL-2-PENTANONE (MIBK)	12 U			
STYRENE	6.1 U			
1,1,2,2-TETRACHLOROETHANE	6.1 U			
TETRACHLOROETHENE	6.1 U			
TOLUENE	6.1 U			
1,2,4-TRICHLOROBENZENE	6.1 U			
1,1,1-TRICHLOROETHANE	6.1 U			
1,1,2-TRICHLOROETHANE	6.1 U			
TRICHLOROETHENE	6.1 U			
TRICHLOROFLUOROMETHANE	6.1 U			
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE	6.1 U			
VINYL CHLORIDE	6.1 U			
O-XYLENE	6.1 U			
M+P-XYLENE	6.1 U			

DIESEL RANGE ORGANICS		DIESEL RANGE ORGANICS (ug/kg)		
DIESEL RANGE ORGANICS		3900000	99000000	86000000

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/L)			
SVOC ANALYTE	AQ-001	AQ-002	AQ-003	AQ-004
ACENAPHTHENE	9.8 U	11 U	11 U	9.3 U
ACENAPHTHYLENE	9.8 U	11 U	11 U	9.3 U
ACETOPHENONE	9.8 U	11 U	11 U	9.3 U
ANTHRACENE	9.8 U	11 U	11 U	9.3 U
ATRAZINE	9.8 U	11 U	11 U	9.3 U
BENZALDEHYDE	9.8 U	11 U	11 U	9.3 U
BENZO(A)ANTHRACENE	9.8 U	11 U	11 U	9.3 U
BENZO(A)PYRENE	9.8 U	11 U	11 U	9.3 U
BENZO(B)FLUORANTHENE	9.8 U	11 U	11 U	9.3 U
BENZO(G,H,I)PERYLENE	9.8 U	11 U	11 U	9.3 U
BENZO(K)FLUORANTHENE	9.8 U	11 U	11 U	9.3 U
1,1'-BIPHENYL	9.8 U	11 U	11 U	9.3 U
BUTYL BENZYL PHTHALATE	9.8 U	11 U	11 U	9.3 U
DI-N-BUTYLPHTHALATE	9.8 U	11 U	11 U	9.3 U
CAPROLACTAM	9.8 U	11 U	11 U	9.3 U
CARBAZOLE	9.8 U	11 U	11 U	22
INDENO(1,2,3-CD)PYRENE	9.8 U	11 U	11 U	9.3 U
4-CHLOROANILINE	9.8 U	11 U	11 U	9.3 U
BIS(-2-CHLOROETHOXY)METHANE	9.8 U	11 U	11 U	9.3 U
BIS(2-CHLOROETHYL)ETHER	9.8 U	11 U	11 U	9.3 U
2-CHLORONAPHTHALENE	9.8 U	11 U	11 U	9.3 U
2-CHLOROPHENOL	9.8 U	11 U	11 U	9.3 U
2,2'-OXYBIS(1-CHLOROPROPANE)	9.8 U	11 U	11 U	9.3 U
CHRYSENE	9.8 U	11 U	11 U	9.3 U
DIBENZO(A,H)ANTHRACENE	9.8 U	11 U	11 U	9.3 U
DIBENZOFURAN	9.8 U	11 U	11 U	9.3 U
3,3'-DICHLOROBENZIDINE	9.8 U	11 U	11 U	9.3 U
2,4-DICHLOROPHENOL	9.8 U	11 U	11 U	9.3 U
DIETHYLPHTHALATE	9.8 U	11 U	17	9.3 U
DIMETHYL PHTHALATE	9.8 U	11 U	11 U	9.3 U
2,4-DIMETHYLPHENOL	9.8 U	11 U	11 U	9.3 U
2,4-DINITROPHENOL	49 U	56 U	53 U	47 U
2,4-DINITROTOLUENE	9.8 U	11 U	11 U	9.3 U
2,6-DINITROTOLUENE	9.8 U	11 U	11 U	9.3 U
BIS(2-ETHYLHEXYL)PHTHALATE	9.8 U	11 U	11 U	9.3 U
FLUORANTHENE	9.8 U	11 U	11 U	9.3 U
FLUORENE	9.8 U	11 U	11 U	16
HEXACHLOROBENZENE	9.8 U	11 U	11 U	9.3 U
HEXACHLOROBUTADIENE	9.8 U	11 U	11 U	9.3 U
HEXACHLOROCYCLOPENTADIENE	9.8 U	11 U	11 U	9.3 U
HEXACHLOROETHANE	9.8 U	11 U	11 U	9.3 U
ISOPHORONE	9.8 U	11 U	11 U	9.3 U
2-METHYLNAPHTHALENE	9.8 U	11 U	11 U	9.3 U
4,6-DINITRO-2-METHYLPHENOL	49 U	56 U	53 U	47 U
4-CHLORO-3-METHYLPHENOL	9.8 U	11 U	11 U	9.3 U
2-METHYLPHENOL	9.8 U	11 U	11 U	9.3 U
4-METHYLPHENOL	9.8 U	11 U	11 U	9.3 U
NAPHTHALENE	9.8 U	11 U	11 U	38
2-NITROANILINE	49 U	56 U	53 U	47 U
3-NITROANILINE	49 U	56 U	53 U	47 U
4-NITROANILINE	49 U	56 U	53 U	47 U
NITROBENZENE	9.8 U	11 U	11 U	9.3 U
2-NITROPHENOL	9.8 U	11 U	11 U	9.3 U
4-NITROPHENOL	49 U	56 U	53 U	47 U
N-NITROSODIPHENYLAMINE	9.8 U	11 U	11 U	9.3 U
DI-N-OCTYL PHTHALATE	9.8 U	11 U	11 U	9.3 U
PENTACHLOROPHENOL	49 U	56 U	53 U	47 U
PHENANTHRENE	9.8 U	11 U	11 U	15
PHENOL	9.8 U	11 U	11 U	9.3 U
4-BROMOPHENYL-PHENYLETHER	9.8 U	11 U	11 U	9.3 U
4-CHLOROPHENYL-PHENYLETHER	9.8 U	11 U	11 U	9.3 U
N-NITROSO-DI-N-PROPYLAMINE	9.8 U	11 U	11 U	9.3 U
PYRENE	9.8 U	11 U	11 U	9.3 U
2,4,6-TRICHLOROPHENOL	9.8 U	11 U	11 U	9.3 U
2,4,5-TRICHLOROPHENOL	9.8 U	11 U	11 U	9.3 U
TERPHENYL-d14	89	89	84	84
NITROBENZENE-d5	90	91	90	90
PHENOL-d6	31	36	33	30
2-FLUOROBIPHENYL	95	94	90	94
2-FLUOROPHENOL	42	48	44	39
2,4,6-TRIBROMOPHENOL	83	79	84	82

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/L)			
VOC ANALYTE	AQ-001	AQ-002	AQ-003	AQ-004
ACETONE		20 U		
BENZENE		5 U		
BROMODICHLOROMETHANE		5 U		
BROMOFORM		5 U		
BROMOMETHANE		5 U		
2-BUTANONE (MEK)		10 U		
METHYL-TERT-BUTYL ETHER		5 U		
CARBON DISULFIDE		10 U		
CARBON TETRACHLORIDE		5 U		
CHLOROBENZENE		5 U		
CHLOROETHANE		5 U		
CHLOROFORM		5 U		
CHLOROMETHANE		5 U		
1,2-DIBROMO-3-CHLOROPROPANE		5 U		
CYCLOHEXANE		5 U		
DIBROMOCHLOROMETHANE		5 U		
1,2-DIBROMOETHANE		5 U		
1,3-DICHLOROBENZENE		5 U		
1,4-DICHLOROBENZENE		5 U		
1,2-DICHLOROBENZENE		5 U		
DICHLORODIFLUOROMETHANE		5 U		
1,1-DICHLOROETHANE		5 U		
1,2-DICHLOROETHANE		5 U		
1,1-DICHLOROETHENE		5 U		
CIS-1,2-DICHLOROETHENE		42		
TRANS-1,2-DICHLOROETHENE		5 U		
1,2-DICHLOROPROPANE		5 U		
CIS-1,3-DICHLOROPROPENE		5 U		
TRANS-1,3-DICHLOROPROPENE		5 U		
ETHYLBENZENE		5 U		
2-HEXANONE		10 U		
ISOPROPYLBENZENE		5 U		
METHYL ACETATE		10 U		
METHYLCYCLOHEXANE		5 U		
METHYLENE CHLORIDE		5 U		
4-METHYL-2-PENTANONE (MIBK)		10 U		
STYRENE		5 U		
1,1,2,2-TETRACHLOROETHANE		5 U		
TETRACHLOROETHENE		5 U		
TOLUENE		5 U		
1,2,4-TRICHLOROBENZENE		5 U		
1,1,1-TRICHLOROETHANE		5 U		
1,1,2-TRICHLOROETHANE		5 U		
TRICHLOROETHENE		20		
TRICHLOROFLUOROMETHANE		5 U		
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE		5 U		
VINYL CHLORIDE		2 U		
O-XYLENE		5 U		
M+P-XYLENE		5 U		
DIESEL RANGE ORGANICS				
DIESEL RANGE ORGANICS				

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/L)			
SVOC ANALYTE	AQ-005	AQ-006	AQ-007	AQ-008
ACENAPHTHENE	49 U	9.3 U	9.7 U	12 U
ACENAPHTHYLENE	49 U	9.3 U	9.7 U	12 U
ACETOPHENONE	49 U	9.3 U	9.7 U	12 U
ANTHRACENE	49 U	9.3 U	9.7 U	12 U
ATRAZINE	49 U	9.3 U	9.7 U	12 U
BENZALDEHYDE	49 U	9.3 U	9.7 U	12 U
BENZO(A)ANTHRACENE	49 U	9.3 U	9.7 U	12 U
BENZO(A)PYRENE	49 U	9.3 U	9.7 U	12 U
BENZO(B)FLUORANTHENE	49 U	9.3 U	9.7 U	12 U
BENZO(G,H,I)PERYLENE	49 U	9.3 U	9.7 U	12 U
BENZO(K)FLUORANTHENE	49 U	9.3 U	9.7 U	12 U
1,1'-BIPHENYL	49 U	9.3 U	9.7 U	12 U
BUTYL BENZYL PHTHALATE	49 U	9.3 U	9.7 U	12 U
DI-N-BUTYLPHTHALATE	49 U	9.3 U	9.7 U	12 U
CAPROLACTAM	49 U	9.3 U	9.7 U	12 U
CARBAZOLE	49 U	9.3 U	9.7 U	12 U
INDENO(1,2,3-CD)PYRENE	49 U	9.3 U	9.7 U	12 U
4-CHLOROANILINE	49 U	9.3 U	9.7 U	12 U
BIS(-2-CHLOROETHOXY)METHANE	49 U	9.3 U	9.7 U	12 U
BIS(2-CHLOROETHYL)ETHER	49 U	9.3 U	9.7 U	12 U
2-CHLORONAPHTHALENE	49 U	9.3 U	9.7 U	12 U
2-CHLOROPHENOL	49 U	9.3 U	9.7 U	12 U
2,2'-OXYBIS(1-CHLOROPROPANE)	49 U	9.3 U	9.7 U	12 U
CHRYSENE	49 U	9.3 U	9.7 U	12 U
DIBENZO(A,H)ANTHRACENE	49 U	9.3 U	9.7 U	12 U
DIBENZOFURAN	49 U	9.3 U	9.7 U	12 U
3,3'-DICHLOROBENZIDINE	49 U	9.3 U	9.7 U	12 U
2,4-DICHLOROPHENOL	49 U	9.3 U	9.7 U	12 U
DIETHYLPHTHALATE	49 U	9.3 U	9.7 U	12 U
DIMETHYL PHTHALATE	49 U	9.3 U	9.7 U	12 U
2,4-DIMETHYLPHENOL	49 U	9.3 U	9.7 U	12 U
2,4-DINITROPHENOL	250 U	47 U	49 U	57 U
2,4-DINITROTOLUENE	49 U	9.3 U	9.7 U	12 U
2,6-DINITROTOLUENE	49 U	9.3 U	9.7 U	12 U
BIS(2-ETHYLHEXYL)PHTHALATE	49 U	9.3 U	9.7 U	12 U
FLUORANTHENE	49 U	9.3 U	9.7 U	12 U
FLUORENE	49 U	9.3 U	9.7 U	12 U
HEXACHLOROBENZENE	49 U	9.3 U	9.7 U	12 U
HEXACHLOROBUTADIENE	49 U	9.3 U	9.7 U	12 U
HEXACHLOROCYCLOPENTADIENE	49 U	9.3 U	9.7 U	12 U
HEXACHLOROETHANE	49 U	9.3 U	9.7 U	12 U
ISOPHORONE	49 U	9.3 U	9.7 U	12 U
2-METHYLNAPHTHALENE	49 U	9.3 U	9.7 U	12 U
4,6-DINITRO-2-METHYLPHENOL	250 U	47 U	49 U	57 U
4-CHLORO-3-METHYLPHENOL	49 U	9.3 U	9.7 U	12 U
2-METHYLPHENOL	49 U	9.3 U	9.7 U	12 U
4-METHYLPHENOL	49 U	9.3 U	9.7 U	12 U
NAPHTHALENE	49 U	9.3 U	9.7 U	12 U
2-NITROANILINE	250 U	47 U	49 U	57 U
3-NITROANILINE	250 U	47 U	49 U	57 U
4-NITROANILINE	250 U	47 U	49 U	57 U
NITROBENZENE	49 U	9.3 U	9.7 U	12 U
2-NITROPHENOL	49 U	9.3 U	9.7 U	12 U
4-NITROPHENOL	250 U	47 U	49 U	57 U
N-NITROSODIPHENYLAMINE	49 U	9.3 U	9.7 U	12 U
DI-N-OCTYL PHTHALATE	49 U	9.3 U	9.7 U	12 U
PENTACHLOROPHENOL	250 U	47 U	49 U	57 U
PHENANTHRENE	49 U	9.3 U	9.7 U	12 U
PHENOL	49 U	9.3 U	9.7 U	12 U
4-BROMOPHENYL-PHENYLETHER	49 U	9.3 U	9.7 U	12 U
4-CHLOROPHENYL-PHENYLETHER	49 U	9.3 U	9.7 U	12 U
N-NITROSO-DI-N-PROPYLAMINE	49 U	9.3 U	9.7 U	12 U
PYRENE	49 U	9.3 U	9.7 U	12 U
2,4,6-TRICHLOROPHENOL	49 U	9.3 U	9.7 U	12 U
2,4,5-TRICHLOROPHENOL	49 U	9.3 U	9.7 U	12 U
TERPHENYL-d14	83	84	94	89
NITROBENZENE-d5	80	85	87	82
PHENOL-d6	31	24	26	31
2-FLUOROBIPHENYL	93	83	88	88
2-FLUOROPHENOL	40	36	39	42
2,4,6-TRIBROMOPHENOL	69	76	78	75

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/L)			
VOC ANALYTE	AQ-005	AQ-006	AQ-007	AQ-008
ACETONE			20 U	
BENZENE			5 U	
BROMODICHLOROMETHANE			5 U	
BROMOFORM			5 U	
BROMOMETHANE			5 U	
2-BUTANONE (MEK)			10 U	
METHYL-TERT-BUTYL ETHER			5 U	
CARBON DISULFIDE			10 U	
CARBON TETRACHLORIDE			5 U	
CHLOROBENZENE			5 U	
CHLOROETHANE			5 U	
CHLOROFORM			5 U	
CHLOROMETHANE			5 U	
1,2-DIBROMO-3-CHLOROPROPANE			5 U	
CYCLOHEXANE			5 U	
DIBROMOCHLOROMETHANE			5 U	
1,2-DIBROMOETHANE			5 U	
1,3-DICHLOROBENZENE			5 U	
1,4-DICHLOROBENZENE			5 U	
1,2-DICHLOROBENZENE			5 U	
DICHLORODIFLUOROMETHANE			5 U	
1,1-DICHLOROETHANE			5 U	
1,2-DICHLOROETHANE			5 U	
1,1-DICHLOROETHENE			5 U	
CIS-1,2-DICHLOROETHENE			5 U	
TRANS-1,2-DICHLOROETHENE			5 U	
1,2-DICHLOROPROPANE			5 U	
CIS-1,3-DICHLOROPROPENE			5 U	
TRANS-1,3-DICHLOROPROPENE			5 U	
ETHYLBENZENE			5 U	
2-HEXANONE			10 U	
ISOPROPYLBENZENE			5 U	
METHYL ACETATE			10 U	
METHYLCYCLOHEXANE			5 U	
METHYLENE CHLORIDE			5 U	
4-METHYL-2-PENTANONE (MIBK)			10 U	
STYRENE			5 U	
1,1,2,2-TETRACHLOROETHANE			5 U	
TETRACHLOROETHENE			5 U	
TOLUENE			5 U	
1,2,4-TRICHLOROBENZENE			5 U	
1,1,1-TRICHLOROETHANE			5 U	
1,1,2-TRICHLOROETHANE			5 U	
TRICHLOROETHENE			5 U	
TRICHLOROFLUOROMETHANE			5 U	
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE			5 U	
VINYL CHLORIDE			2 U	
O-XYLENE			5 U	
M+P-XYLENE			5 U	
DIESEL RANGE ORGANICS				
DIESEL RANGE ORGANICS				

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/L)				
SVOC ANALYTE	AQ-009	AQ-010	AQ-011	AQ-012	AQ-013
ACENAPHTHENE	10 U	11 U	10 U	470 U	11 U
ACENAPHTHYLENE	10 U	11 U	10 U	470 U	11 U
ACETOPHENONE	10 U	11 U	10 U	470 U	11 U
ANTHRACENE	10 U	11 U	10 U	470 U	11 U
ATRAZINE	10 U	11 U	10 U	470 U	11 U
BENZALDEHYDE	10 U	11 U	10 U	470 U	11 U
BENZO(A)ANTHRACENE	10 U	11 U	10 U	470 U	11 U
BENZO(A)PYRENE	10 U	11 U	10 U	470 U	11 U
BENZO(B)FLUORANTHENE	10 U	11 U	10 U	470 U	11 U
BENZO(G,H,I)PERYLENE	10 U	11 U	10 U	470 U	11 U
BENZO(K)FLUORANTHENE	10 U	11 U	10 U	470 U	11 U
1,1'-BIPHENYL	10 U	11 U	10 U	470 U	11 U
BUTYL BENZYL PHTHALATE	10 U	11 U	10 U	470 U	11 U
DI-N-BUTYLPHTHALATE	10 U	11 U	10 U	470 U	11 U
CAPROLACTAM	10 U	11 U	10 U	470 U	11 U
CARBAZOLE	10 U	11 U	10 U	470 U	11 U
INDENO(1,2,3-CD)PYRENE	10 U	11 U	10 U	470 U	11 U
4-CHLOROANILINE	10 U	11 U	10 U	470 U	11 U
BIS(-2-CHLOROETHOXY)METHANE	10 U	11 U	10 U	470 U	11 U
BIS(2-CHLOROETHYL)ETHER	10 U	11 U	10 U	470 U	11 U
2-CHLORONAPHTHALENE	10 U	11 U	10 U	470 U	11 U
2-CHLOROPHENOL	10 U	11 U	10 U	470 U	11 U
2,2'-OXYBIS(1-CHLOROPROPANE)	10 U	11 U	10 U	470 U	11 U
CHRYSENE	10 U	11 U	10 U	470 U	11 U
DIBENZO(A,H)ANTHRACENE	10 U	11 U	10 U	470 U	11 U
DIBENZOFURAN	10 U	11 U	10 U	470 U	11 U
3,3'-DICHLOROBENZIDINE	10 U	11 U	10 U	470 U	11 U
2,4-DICHLOROPHENOL	10 U	11 U	10 U	470 U	11 U
DIETHYLPHTHALATE	10 U	11 U	10 U	470 U	11 U
DIMETHYL PHTHALATE	10 U	11 U	10 U	470 U	11 U
2,4-DIMETHYLPHENOL	10 U	11 U	10 U	470 U	11 U
2,4-DINITROPHENOL	51 U	53 U	50 U	2300 U	57 U
2,4-DINITROTOLUENE	10 U	11 U	10 U	470 U	11 U
2,6-DINITROTOLUENE	10 U	11 U	10 U	470 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	11 U	10 U	470 U	11 U
FLUORANTHENE	10 U	11 U	10 U	470 U	11 U
FLUORENE	10 U	11 U	10 U	470 U	11 U
HEXACHLOROBENZENE	10 U	11 U	10 U	470 U	11 U
HEXACHLOROBUTADIENE	10 U	11 U	10 U	470 U	11 U
HEXACHLOROCYCLOPENTADIENE	10 U	11 U	10 U	470 U	11 U
HEXACHLOROETHANE	10 U	11 U	10 U	470 U	11 U
ISOPHORONE	10 U	11 U	10 U	470 U	11 U
2-METHYLNAPHTHALENE	10 U	11 U	10 U	470 U	11 U
4,6-DINITRO-2-METHYLPHENOL	51 U	53 U	50 U	2300 U	57 U
4-CHLORO-3-METHYLPHENOL	10 U	11 U	10 U	470 U	11 U
2-METHYLPHENOL	10 U	11 U	10 U	470 U	11 U
4-METHYLPHENOL	10 U	11 U	10 U	470 U	11 U
NAPHTHALENE	10 U	11 U	10 U	470 U	11 U
2-NITROANILINE	51 U	53 U	50 U	2300 U	57 U
3-NITROANILINE	51 U	53 U	50 U	2300 U	57 U
4-NITROANILINE	51 U	53 U	50 U	2300 U	57 U
NITROBENZENE	10 U	11 U	10 U	470 U	11 U
2-NITROPHENOL	10 U	11 U	10 U	470 U	11 U
4-NITROPHENOL	51 U	53 U	50 U	2300 U	57 U
N-NITROSODIPHENYLAMINE	10 U	11 U	10 U	470 U	11 U
DI-N-OCTYL PHTHALATE	10 U	11 U	10 U	470 U	11 U
PENTACHLOROPHENOL	51 U	53 U	50 U	2300 U	57 U
PHENANTHRENE	10 U	11 U	10 U	470 U	11 U
PHENOL	10 U	11 U	10 U	470 U	11 U
4-BROMOPHENYL-PHENYLETHER	10 U	11 U	10 U	470 U	11 U
4-CHLOROPHENYL-PHENYLETHER	10 U	11 U	10 U	470 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	10 U	11 U	10 U	470 U	11 U
PYRENE	10 U	11 U	10 U	470 U	11 U
2,4,6-TRICHLOROPHENOL	10 U	11 U	10 U	470 U	11 U
2,4,5-TRICHLOROPHENOL	10 U	11 U	10 U	470 U	11 U
TERPHENYL-d14	92	82	84	D	117
NITROBENZENE-d5	85	85	68	D	102
PHENOL-d6	31	29	27	D	20
2-FLUOROBIPHENYL	88	86	71	D	111 *
2-FLUOROPHENOL	43	41	36	D	25
2,4,6-TRIBROMOPHENOL	79	74	67	D	53

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/L)				
VOC ANALYTE	AQ-009	AQ-010	AQ-011	AQ-012	AQ-013
ACETONE		20 U			
BENZENE		5 U			
BROMODICHLOROMETHANE		5 U			
BROMOFORM		5 U			
BROMOMETHANE		5 U			
2-BUTANONE (MEK)		10 U			
METHYL-TERT-BUTYL ETHER		5 U			
CARBON DISULFIDE		10 U			
CARBON TETRACHLORIDE		5 U			
CHLOROBENZENE		5 U			
CHLOROETHANE		5 U			
CHLOROFORM		5 U			
CHLOROMETHANE		5 U			
1,2-DIBROMO-3-CHLOROPROPANE		5 U			
CYCLOHEXANE		5 U			
DIBROMOCHLOROMETHANE		5 U			
1,2-DIBROMOETHANE		5 U			
1,3-DICHLOROBENZENE		5 U			
1,4-DICHLOROBENZENE		5 U			
1,2-DICHLOROBENZENE		5 U			
DICHLORODIFLUOROMETHANE		5 U			
1,1-DICHLOROETHANE		5 U			
1,2-DICHLOROETHANE		5 U			
1,1-DICHLOROETHENE		5 U			
CIS-1,2-DICHLOROETHENE		5 U			
TRANS-1,2-DICHLOROETHENE		5 U			
1,2-DICHLOROPROPANE		5 U			
CIS-1,3-DICHLOROPROPENE		5 U			
TRANS-1,3-DICHLOROPROPENE		5 U			
ETHYLBENZENE		5 U			
2-HEXANONE		10 U			
ISOPROPYLBENZENE		5 U			
METHYL ACETATE		10 U			
METHYLCYCLOHEXANE		5 U			
METHYLENE CHLORIDE		5 U			
4-METHYL-2-PENTANONE (MIBK)		10 U			
STYRENE		5 U			
1,1,2,2-TETRACHLOROETHANE		5 U			
TETRACHLOROETHENE		5 U			
TOLUENE		5 U			
1,2,4-TRICHLOROBENZENE		5 U			
1,1,1-TRICHLOROETHANE		5 U			
1,1,2-TRICHLOROETHANE		5 U			
TRICHLOROETHENE		5 U			
TRICHLOROFLUOROMETHANE		5 U			
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE		5 U			
VINYL CHLORIDE		2 U			
O-XYLENE		5 U			
M+P-XYLENE		5 U			

DIESEL RANGE ORGANICS	DIESEL RANGE ORGANICS (ug/L)				
DIESEL RANGE ORGANICS		500		51000	1500

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (ug/L)			
SVOC ANALYTE	AQ-014	AQ-015	AQ-016	AQ-017
ACENAPHTHENE	510 U	11 U	10 U	12 U
ACENAPHTHYLENE	510 U	11 U	10 U	12 U
ACETOPHENONE	510 U	11 U	10 U	12 U
ANTHRACENE	510 U	11 U	10 U	12 U
ATRAZINE	510 U	11 U	10 U	12 U
BENZALDEHYDE	510 U	11 U	10 U	12 U
BENZO(A)ANTHRACENE	510 U	11 U	10 U	12 U
BENZO(A)PYRENE	510 U	11 U	10 U	12 U
BENZO(B)FLUORANTHENE	510 U	11 U	10 U	12 U
BENZO(G,H,I)PERYLENE	510 U	11 U	10 U	12 U
BENZO(K)FLUORANTHENE	510 U	11 U	10 U	12 U
1,1'-BIPHENYL	510 U	11 U	10 U	12 U
BUTYL BENZYL PHTHALATE	510 U	11 U	10 U	12 U
DI-N-BUTYLPHTHALATE	510 U	11 U	10 U	12 U
CAPROLACTAM	510 U	11 U	10 U	12 U
CARBAZOLE	510 U	11 U	10 U	12 U
INDENO(1,2,3-CD)PYRENE	510 U	11 U	10 U	12 U
4-CHLOROANILINE	510 U	11 U	10 U	12 U
BIS(-2-CHLOROETHOXY)METHANE	510 U	11 U	10 U	12 U
BIS(2-CHLOROETHYL)ETHER	510 U	11 U	10 U	12 U
2-CHLORONAPHTHALENE	510 U	11 U	10 U	12 U
2-CHLOROPHENOL	510 U	11 U	10 U	12 U
2,2'-OXYBIS(1-CHLOROPROPANE)	510 U	11 U	10 U	12 U
CHRYSENE	510 U	11 U	10 U	12 U
DIBENZO(A,H)ANTHRACENE	510 U	11 U	10 U	12 U
DIBENZOFURAN	510 U	11 U	10 U	12 U
3,3'-DICHLOROBENZIDINE	510 U	11 U	10 U	12 U
2,4-DICHLOROPHENOL	510 U	11 U	10 U	12 U
DIETHYLPHTHALATE	510 U	11 U	10 U	12 U
DIMETHYL PHTHALATE	510 U	11 U	10 U	12 U
2,4-DIMETHYLPHENOL	510 U	11 U	10 U	12 U
2,4-DINITROPHENOL	2500 U	56 U	51 U	57 U
2,4-DINITROTOLUENE	510 U	11 U	10 U	12 U
2,6-DINITROTOLUENE	510 U	11 U	10 U	12 U
BIS(2-ETHYLHEXYL)PHTHALATE	510 U	11 U	10 U	12 U
FLUORANTHENE	510 U	11 U	10 U	12 U
FLUORENE	510 U	11 U	10 U	12 U
HEXACHLOROBENZENE	510 U	11 U	10 U	12 U
HEXACHLOROBUTADIENE	510 U	11 U	10 U	12 U
HEXACHLOROCYCLOPENTADIENE	510 U	11 U	10 U	12 U
HEXACHLOROETHANE	510 U	11 U	10 U	12 U
ISOPHORONE	510 U	11 U	10 U	12 U
2-METHYLNAPHTHALENE	510 U	11 U	10 U	12 U
4,6-DINITRO-2-METHYLPHENOL	2500 U	56 U	51 U	57 U
4-CHLORO-3-METHYLPHENOL	510 U	11 U	10 U	12 U
2-METHYLPHENOL	510 U	11 U	10 U	12 U
4-METHYLPHENOL	510 U	11 U	10 U	12 U
NAPHTHALENE	510 U	11 U	10 U	12 U
2-NITROANILINE	2500 U	56 U	51 U	57 U
3-NITROANILINE	2500 U	56 U	51 U	57 U
4-NITROANILINE	2500 U	56 U	51 U	57 U
NITROBENZENE	510 U	11 U	10 U	12 U
2-NITROPHENOL	510 U	11 U	10 U	12 U
4-NITROPHENOL	2500 U	56 U	51 U	57 U
N-NITROSODIPHENYLAMINE	510 U	11 U	10 U	12 U
DI-N-OCTYL PHTHALATE	510 U	11 U	10 U	12 U
PENTACHLOROPHENOL	2500 U	56 U	51 U	57 U
PHENANTHRENE	510 U	11 U	10 U	12 U
PHENOL	510 U	11 U	10 U	12 U
4-BROMOPHENYL-PHENYLETHER	510 U	11 U	10 U	12 U
4-CHLOROPHENYL-PHENYLETHER	510 U	11 U	10 U	12 U
N-NITROSO-DI-N-PROPYLAMINE	510 U	11 U	10 U	12 U
PYRENE	510 U	11 U	10 U	12 U
2,4,6-TRICHLOROPHENOL	510 U	11 U	10 U	12 U
2,4,5-TRICHLOROPHENOL	510 U	11 U	10 U	12 U
TERPHENYL-d14	D	87	87	94
NITROBENZENE-d5	D	91	95	80
PHENOL-d6	D	33	31	33
2-FLUOROBIPHENYL	D	92	97	86
2-FLUOROPHENOL	D	44	44	44
2,4,6-TRIBROMOPHENOL	D	81	86	77

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/L)							
VOC ANALYTE	AQ-014		AQ-015		AQ-016		AQ-017	
ACETONE			20	U			20	U
BENZENE			5	U			5	U
BROMODICHLOROMETHANE			5	U			5	U
BROMOFORM			5	U			5	U
BROMOMETHANE			5	U			5	U
2-BUTANONE (MEK)			10	U			10	U
METHYL-TERT-BUTYL ETHER			5	U			5	U
CARBON DISULFIDE			10	U			10	U
CARBON TETRACHLORIDE			5	U			5	U
CHLOROBENZENE			5	U			5	U
CHLOROETHANE			5	U			5	U
CHLOROFORM			5	U			5	U
CHLOROMETHANE			5	U			5	U
1,2-DIBROMO-3-CHLOROPROPANE			5	U			5	U
CYCLOHEXANE			5	U			5	U
DIBROMOCHLOROMETHANE			5	U			5	U
1,2-DIBROMOETHANE			5	U			5	U
1,3-DICHLOROBENZENE			5	U			5	U
1,4-DICHLOROBENZENE			5	U			5	U
1,2-DICHLOROBENZENE			5	U			5	U
DICHLORODIFLUOROMETHANE			5	U			5	U
1,1-DICHLOROETHANE			5	U			5	U
1,2-DICHLOROETHANE			5	U			5	U
1,1-DICHLOROETHENE			5	U			5	U
CIS-1,2-DICHLOROETHENE			5	U			5	U
TRANS-1,2-DICHLOROETHENE			5	U			5	U
1,2-DICHLOROPROPANE			5	U			5	U
CIS-1,3-DICHLOROPROPENE			5	U			5	U
TRANS-1,3-DICHLOROPROPENE			5	U			5	U
ETHYLBENZENE			5	U			5	U
2-HEXANONE			10	U			10	U
ISOPROPYLBENZENE			5	U			5	U
METHYL ACETATE			10	U			10	U
METHYLCYCLOHEXANE			5	U			5	U
METHYLENE CHLORIDE			5	U			5	U
4-METHYL-2-PENTANONE (MIBK)			10	U			10	U
STYRENE			5	U			5	U
1,1,2,2-TETRACHLOROETHANE			5	U			5	U
TETRACHLOROETHENE			5	U			5	U
TOLUENE			5	U			5	U
1,2,4-TRICHLOROBENZENE			5	U			5	U
1,1,1-TRICHLOROETHANE			5	U			5	U
1,1,2-TRICHLOROETHANE			5	U			5	U
TRICHLOROETHENE			5	U			5	U
TRICHLOROFLUOROMETHANE			5	U			5	U
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE			5	U			5	U
VINYL CHLORIDE			2	U			2	U
O-XYLENE			5	U			5	U
M+P-XYLENE			5	U			5	U

DIESEL RANGE ORGANICS		DIESEL RANGE ORGANICS (ug/L)		
DIESEL RANGE ORGANICS		280		2700

Note: Gray = Constituent not analyzed in this sample.

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	SEMIVOLATILES ORGANIC COMPOUNDS (u				
SVOC ANALYTE	AQ-101		OIL-001		
ACENAPHTHENE	100	U	100000	U	
ACENAPHTHYLENE	100	U	100000	U	
ACETOPHENONE	100	U	100000	U	
ANTHRACENE	100	U	100000	U	
ATRAZINE	100	U	100000	U	
BENZALDEHYDE	100	U	100000	U	
BENZO(A)ANTHRACENE	100	U	100000	U	
BENZO(A)PYRENE	100	U	100000	U	
BENZO(B)FLUORANTHENE	100	U	100000	U	
BENZO(G,H,I)PERYLENE	100	U	100000	U	
BENZO(K)FLUORANTHENE	100	U	100000	U	
1,1'-BIPHENYL	100	U	100000	U	
BUTYL BENZYL PHTHALATE	100	U	100000	U	
DI-N-BUTYLPHTHALATE	100	U	100000	U	
CAPROLACTAM	100	U	100000	U	
CARBAZOLE	100	U	100000	U	
INDENO(1,2,3-CD)PYRENE	100	U	100000	U	
4-CHLOROANILINE	100	U	100000	U	
BIS(-2-CHLOROETHOXY)METHANE	100	U	100000	U	
BIS(2-CHLOROETHYL)ETHER	100	U	100000	U	
2-CHLORONAPHTHALENE	100	U	100000	U	
2-CHLOROPHENOL	100	U	100000	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	100	U	100000	U	
CHRYSENE	100	U	100000	U	
DIBENZO(A,H)ANTHRACENE	100	U	100000	U	
DIBENZOFURAN	100	U	100000	U	
3,3'-DICHLOROBENZIDINE	100	U	100000	U	
2,4-DICHLOROPHENOL	100	U	100000	U	
DIETHYLPHTHALATE	100	U	100000	U	
DIMETHYL PHTHALATE	100	U	100000	U	
2,4-DIMETHYLPHENOL	100	U	100000	U	
2,4-DINITROPHENOL	500	U	250000	U	
2,4-DINITROTOLUENE	100	U	100000	U	
2,6-DINITROTOLUENE	100	U	100000	U	
BIS(2-ETHYLHEXYL)PHTHALATE	100	U	100000	U	
FLUORANTHENE	100	U	100000	U	
FLUORENE	100	U	100000	U	
HEXACHLOROBENZENE	100	U	100000	U	
HEXACHLOROBUTADIENE	100	U	100000	U	
HEXACHLOROCYCLOPENTADIENE	100	U	100000	U	
HEXACHLOROETHANE	100	U	100000	U	
ISOPHORONE	100	U	100000	U	
2-METHYLNAPHTHALENE	100	U	100000	U	
4,6-DINITRO-2-METHYLPHENOL	500	U	250000	U	
4-CHLORO-3-METHYLPHENOL	100	U	100000	U	
2-METHYLPHENOL	100	U	100000	U	
4-METHYLPHENOL	100	U	100000	U	
NAPHTHALENE	100	U	100000	U	
2-NITROANILINE	500	U	250000	U	
3-NITROANILINE	500	U	250000	U	
4-NITROANILINE	500	U	250000	U	
NITROBENZENE	100	U	100000	U	
2-NITROPHENOL	100	U	100000	U	
4-NITROPHENOL	500	U	250000	U	
N-NITROSODIPHENYLAMINE	100	U	100000	U	
DI-N-OCTYL PHTHALATE	100	U	100000	U	
PENTACHLOROPHENOL	500	U	250000	U	
PHENANTHRENE	100	U	100000	U	
PHENOL	100	U	100000	U	
4-BROMOPHENYL-PHENYLETHER	100	U	100000	U	
4-CHLOROPHENYL-PHENYLETHER	100	U	100000	U	
N-NITROSO-DI-N-PROPYLAMINE	100	U	100000	U	
PYRENE	100	U	100000	U	
2,4,6-TRICHLOROPHENOL	100	U	100000	U	
2,4,5-TRICHLOROPHENOL	100	U	250000	U	
TERPHENYL-d14	74		104		
NITROBENZENE-d5	71		116		
PHENOL-d6	23		105		
2-FLUOROBIPHENYL	78		127		
2-FLUOROPHENOL	36		101		
2,4,6-TRIBROMOPHENOL	62		92		

Table 3-6. Analytical Summary for Semivolatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and Diesel Range Organics (DROs)

	VOLATILES ORGANIC COMPOUNDS (ug/L)	
VOC ANALYTE	AQ-101	OIL-001
ACETONE		
BENZENE		
BROMODICHLOROMETHANE		
BROMOFORM		
BROMOMETHANE		
2-BUTANONE (MEK)		
METHYL-TERT-BUTYL ETHER		
CARBON DISULFIDE		
CARBON TETRACHLORIDE		
CHLOROBENZENE		
CHLOROETHANE		
CHLOROFORM		
CHLOROMETHANE		
1,2-DIBROMO-3-CHLOROPROPANE		
CYCLOHEXANE		
DIBROMOCHLOROMETHANE		
1,2-DIBROMOETHANE		
1,3-DICHLOROBENZENE		
1,4-DICHLOROBENZENE		
1,2-DICHLOROBENZENE		
DICHLORODIFLUOROMETHANE		
1,1-DICHLOROETHANE		
1,2-DICHLOROETHANE		
1,1-DICHLOROETHENE		
CIS-1,2-DICHLOROETHENE		
TRANS-1,2-DICHLOROETHENE		
1,2-DICHLOROPROPANE		
CIS-1,3-DICHLOROPROPENE		
TRANS-1,3-DICHLOROPROPENE		
ETHYLBENZENE		
2-HEXANONE		
ISOPROPYLBENZENE		
METHYL ACETATE		
METHYLCYCLOHEXANE		
METHYLENE CHLORIDE		
4-METHYL-2-PENTANONE (MIBK)		
STYRENE		
1,1,2,2-TETRACHLOROETHANE		
TETRACHLOROETHENE		
TOLUENE		
1,2,4-TRICHLOROBENZENE		
1,1,1-TRICHLOROETHANE		
1,1,2-TRICHLOROETHANE		
TRICHLOROETHENE		
TRICHLOROFLUOROMETHANE		
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHANE		
VINYL CHLORIDE		
O-XYLENE		
M+P-XYLENE		

DIESEL RANGE ORGANICS	DIESEL RANGE ORGANICS (ug/L)	
DIESEL RANGE ORGANICS		66000000

Note: Gray = Constituent not analyzed in this sample.

Table 3-7. Analytical Summary for Total Metals Results

Metal Analyte	TOTAL METALS (mg/kg)													
	WB-006	WB-008	WB-009	WB-010	WB-011	WB-001	WB-002	WB-003	WB-004	WB-100	WB-101	SAND-100	SAND-101	SAND-102
Aluminum	655	1520	302	450	441	674	2080	1610	642	418	982	4800	8260	3050
Antimony	6 U	6 U	5.88 U	5.94 U	5.94 U	5.94 U	7.9	5.83 U	7	6 U	10.4	82.3	28.6	35.8
Barium	48.6	271	255	502	128	342	141	100	353	442	681	328	526	240
Beryllium	0.5 U	0.5 U	0.49 U	0.495 U	0.495 U	0.495 U	4.9 U	24.3 U	0.5 U	0.5 U	0.476 U	5.7 U	5.92 U	5.2 U
Cadmium	4.8	6.5	7.2	17	5.7	4.5	9.2	4.5	2.8	12.8	17.7	18.1	46.8	21.6
Calcium	1850	3820	2380	3280	2840	7740	17600	24200	2940	3830	4700	18800	20000	61800
Chromium	26.4	39.8	32.1	48.2	30.4	89.8	462	163	46.7	29.9	54.4	552	389	556
Copper	263	195	66.6	102	102	496	814	375	263	896	2050	974	1290	3930
Iron	15800	11900	6380	22200	31800	38700	279000	87800	17900	13900	30700	216000	261000	291000
Magnesium	384	1140	622	480	450	1080	1520	1070	339	410	606	4470	6610	3300
Manganese	179	195	153	228	350	541	3560	2100	243	151	275	3560	3530	4790
Nickel	20.5	29.5	20.8	18.8	31.3	81.8	449	297	48.5	36.5	102	408	293	455
Potassium	200 U	200 U	239	200 U	741	585	1980	2340	200 U	1240	1480	1370	2070	781
Selenium	2.35	1.95	1.91	1.16	2.8	3.25	7.82	5.62	2.18	2.5	2.63	7.5	7.3	8.8
Silver	1 U	1 U	0.98 U	0.99 U	0.99 U	0.99 U	9.8 U	0.971 U	1 U	1 U	0.952 U	1.14 U	2.1	1.04 U
Sodium	170	233	278	175	754	850	959	1330	153	1590	1700	491	358	577
Thallium	1 U	1 U	0.98 U	0.99 U	0.99 U	0.99 U	9.8 U	0.971 U	1 U	1 U	0.952 U	11.4 U	11.8 U	10.4 U
Zinc	274	626	356	700	231	603	442	457	353	374	471	2380	5630	1460
Vanadium	5 U	5 U	7.5	7.8	4.95 U	7.3	49.2	17.3	12.7	8	10.5	54.4	66.3	61.1
Cobalt	5 U	5 U	4.9 U	4.95 U	4.95 U	8.2	20.5	12	5 U	5 U	4.76 U	20.4	21.1	24
Arsenic	1.2	1 U	0.98 U	2.7	3.2	1.7	7.3	5.3	2.3	2.9	5.6	11.2	11.9	7
Lead	96	340	75.9	294	209	169	264	173	235	221	408	5590	1020	1150
Mercury	0.106	0.251	0.193	0.202	0.447	0.0333 U	0.135	0.129	0.195	0.256	0.241	0.259	0.201	0.146

Table 3-7. Analytical Summary for Total Metals Results

Metal Analyte	TOTAL METALS (mg/kg)								TOTAL METALS (mg/L)				
	SAND-008	SAND-103	SAND-104	SAND-105	SAND-106	SAND-107	SAND-108	SAND-022	AQ-001	AQ-002	AQ-003	AQ-004	AQ-005
Aluminum	3920	3450	6830	5060	5440	4650	3890	3790	0.1000 U	0.1000 U	0.1000 U	0.5820	1.9800
Antimony	25.7	30.1	68.5	18.6	36.5	35	76.9	31.3	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U
Barium	1210	1190	541	149	514	337	921	1060	0.0536 U	0.1120	0.2140	0.5510	0.6920
Beryllium	0.631 U	0.575 U	0.631 U	0.571 U	0.608 U	0.604 U	59.5 U	5.63 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Cadmium	11.2	92.7	48.4	16.3	55.1	56.3	53.3	48.6	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0390
Calcium	5840	7580	15100	12700	20100	11400	16600	14500	47.3000	48.9000	76.7000	88.2000	13.3000
Chromium	254	133	523	290	354	453	225	216	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.2760
Copper	4860	1070	4170	846	977	1150	2490	1480	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.2380
Iron	73500	82100	246000	272000	153000	222000	297000	302000	0.6260	1.6400	10.1000	78.0000	75.1000
Magnesium	1320	1360	2910	2650	5480	2360	2540	2400	48.6000	21.6000	7.0500	26.5000	1.9200
Manganese	1170	875	1960	2260	1510	1410	2250	3190	0.1430	0.1480	0.4460	0.8930	0.5780
Nickel	245	221	405	229	600	738	202	234	0.0400 U	0.0400 U	0.0400 U	0.0400 U	0.0400 U
Potassium	699	1120	446	586	960	762	770	1020	13.7000	14.1000	34.4000	46.0000	3.7600
Selenium	4.4	3.3	6.5	5.6	3.9	4.9	10.1	4.6	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Silver	2	1.15 U	1.7	1.14 U	1.22 U	1.21 U	1.19 U	2.9	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Sodium	227	465	375	178	359	282	338	891	46.3000	48.0000	30.5000	102.00	3.4200
Thallium	25.3 U	5.75 U	12.6 U	11.4 U	12.2 U	12.1 U	11.9 U	11.3 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Zinc	1040	758	11100	543	5610	2770	2760	1810	0.3210	0.0214	0.1430	0.5730	6.0400
Vanadium	32	29.1	54.9	66.2	39.8	48	50.8	50.6	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Cobalt	16.8	11.3	36.5	25.9	21.1	23.9	23.3	23.3	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Arsenic	8	12.3	15.8	8	13	19.3	28.1	46.1	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0256
Lead	1040	835	7100	299	788	522	2030	1560	0.0050 U	0.0050 U	0.0790	0.0446	0.8000
Mercury	0.0433 U	0.16	0.0424 U	0.122	0.265	0.232	1.25	2.66	0.0003 U	0.0003	0.0003 U	0.0003 U	0.0003 U

Table 3-7. Analytical Summary for Total Metals Results

Metal Analyte	TOTAL METALS (mg/L)													
	AQ-006	AQ-007	AQ-008	AQ-009	AQ-010	AQ-011	AQ-012	AQ-013	AQ-014	AQ-015	AQ-016	AQ-017	AQ-101	OIL-001
Aluminum	0.3890	0.1000 U	0.1000 U	1.3600	0.1710	2.6300	2.5000	0.1000 U	4.0200	0.6010	0.4810	0.2240	0.8380	61.9000
Antimony	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	6.0000 U
Barium	0.1130	0.0200 U	0.0292	0.3740	0.1700	0.1730	0.5290	0.1300	0.9380	0.0373	0.0372	0.0385	0.0506	6.6300
Beryllium	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.5000 U
Cadmium	0.0050 U	0.0050 U	0.0050 U	0.2930	0.0077	0.0080	0.0050 U	0.0050 U	0.0323	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.5000 U
Calcium	7.6100	8.2900	64.7000	36.6000	13.2000	52.4000	108.00	43.1000	29.2000	28.6000	30.3000	57.8000	29.7000	216.00
Chromium	0.0100 U	0.0100 U	0.0100 U	0.1430	0.0180	0.0364	0.0283	0.0100 U	0.0670	0.0100 U	0.0100 U	0.0100 U	0.0100 U	1.6300
Copper	0.0200 U	0.0200 U	0.0200 U	0.1470	0.0671	0.1040	0.2960	0.0200 U	0.1860	0.0200 U	0.0233	0.0200 U	0.0472	58.5000
Iron	66.2000	1.8600	0.5380	98.7000	64.1000	15.0000	33.8000	2.5600	42.4000	5.4600	5.5400	7.6000	6.4600	899.00
Magnesium	0.9210	0.8290	25.4000	4.3000	1.1400	9.7600	25.6000	2.6800	13.1000	8.6400	8.7100	22.3000	8.7100	50.0000 U
Manganese	1.0300	0.0501	0.0891	0.7930	0.2600	0.3410	0.6150	0.0982	0.7200	0.1570	0.1570	0.0364	0.2390	5.0800
Nickel	0.0400 U	0.0400 U	0.0400 U	0.1970	0.0400 U	0.0400 U	0.0400 U	0.0400 U	0.0623	0.0400 U	0.0400 U	0.0400 U	0.0400 U	4.0000 U
Potassium	58.1000	2.0000 U	22.3000	19.6000	3.6800	13.6000	94.6000	4.8100	15.2000	33.8000	36.0000	12.4000	35.1000	200.00 U
Selenium	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	1.0000 U
Silver	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	1.0000 U
Sodium	102.00	0.9140	146.00	17.3000	5.0500	17.7000	87.1000	2.9200	15.2000	84.6000	90.3000	54.8000	89.4000	100.00 U
Thallium	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	1.0000 U
Zinc	0.4040	0.1490	0.0462	6.6600	0.5000	0.7010	0.7420	0.0702	2.9600	0.0811	0.0831	0.1380	0.1600	17.1000
Vanadium	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	5.0000 U
Cobalt	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	5.0000 U
Arsenic	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0184	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	1.0000 U
Lead	0.0671	0.0245	0.0050 U	0.4580	0.0657	0.2680	0.1190	0.0210	0.7160	0.0178	0.0149	0.1350	0.0273	30.2000
Mercury	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003 U	0.0003	0.0003 U	0.0333 U

Table 6-1. Analytical Summary for Black Sand

Total Metals Analysis

Constituent	UNIT	10-FS-001	10-FS-002
ALUMINUM	MG/KG	10500	5980
ANTIMONY	MG/KG	9.05 U	6.83 U
BARIUM	MG/KG	113	81.9
BERYLLIUM	MG/KG	0.911	0.615
CADMIUM	MG/KG	0.777	1.44
CALCIUM	MG/KG	43300	18100
CHROMIUM	MG/KG	27.0	58.3
COPPER	MG/KG	82.1	179
IRON	MG/KG	38500	67500
MAGNESIUM	MG/KG	8110	4580
MANGANESE	MG/KG	1300	3080
NICKEL	MG/KG	22.2	27.9
POTASSIUM	MG/KG	2010	1660
SELENIUM	MG/KG	5.19	8.33
SILVER	MG/KG	1.51 U	3.36
SODIUM	MG/KG	992	1110
THALLIUM	MG/KG	15.1 U	22.8 U
ZINC	MG/KG	219	781
VANADIUM	MG/KG	25.8	24.8
COBALT	MG/KG	7.54 U	7.07
ARSENIC	MG/KG	13.7	25.7
LEAD	MG/KG	284	514
MERCURY	MG/KG	0.370	0.0952

TCLP Analysis

Constituent		9-T	10-T
LEAD	MG/L	0.366	0.100 U
Remaining Metals	MG/L	ND	ND
All SVOCs	MG/L	ND	ND

ND = Non- Detectable Concentrations

SPRING STREET

NORTH

PLAYGROUND

BROADWAY YARD

Building 9
PATTERN STORAGE

Building 10
FOUNDRY / PRESS PIT

Building 11
FACTORY / ERECTING

Building 25
FACTORY / ERECTING

Building 21

Building 28

SYCAMORE YARD

SYCAMORE STREET

Building 18

TOUSEY STREET

Building 13
CRANEWAY

BROADWAY

Building 3
OFFICES

BOILER ROOM

Building 6

Building 4
SHIPPING AND CRATING

Building 2
OFFICES

PIPE SHOP

FAN SHOP

SHEET METAL WORK

Building 12
ASSEMBLY AREA / MACHINE SHOP

Building 27
FACTORY / ERECTING

Building 23

Capacitor Room

Building 1
OFFICES

Building 8

Building 5

Building 7

Building 22

MORTIMER STREET

Building 14
GARAGE

0 80 160
SCALE IN FEET

Figure 2-1
Site Plan of
Former Facility

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 9/13/07
SCALE: As Shown
DRAWN BY: LAR
PROJ 129112

SPRING STREET

PLAYGROUND

BROADWAY YARD

No. 9
PATTERN STORAGE

No. 10
FOUNDRY / PRESS PIT

No. 11
FACTORY / ERECTING

No. 25
FACTORY / ERECTING

No. 21

No. 28

SYCAMORE YARD

No. 18

SYCAMORE STREET

TOUSEY STREET

No. 13
CRANEWAY

BROADWAY

No. 3
OFFICES

BOILER ROOM

No. 6

No. 4
SHIPPING AND CRATING

No. 2
OFFICES

PIPE SHOP

FAN SHOP

SHEET METAL WORK

No. 12
ASSEMBLY AREA / MACHINE SHOP

No. 27
FACTORY / ERECTING

No. 23

Capacitor Room

No. 1
OFFICES

No. 8

No. 5

No. 7

No. 22

MORTIMER STREET

No. 14
GARAGE

LEGEND

Wood Block Floor Areas

No. 1 Building Number

0 80 160

SCALE IN FEET

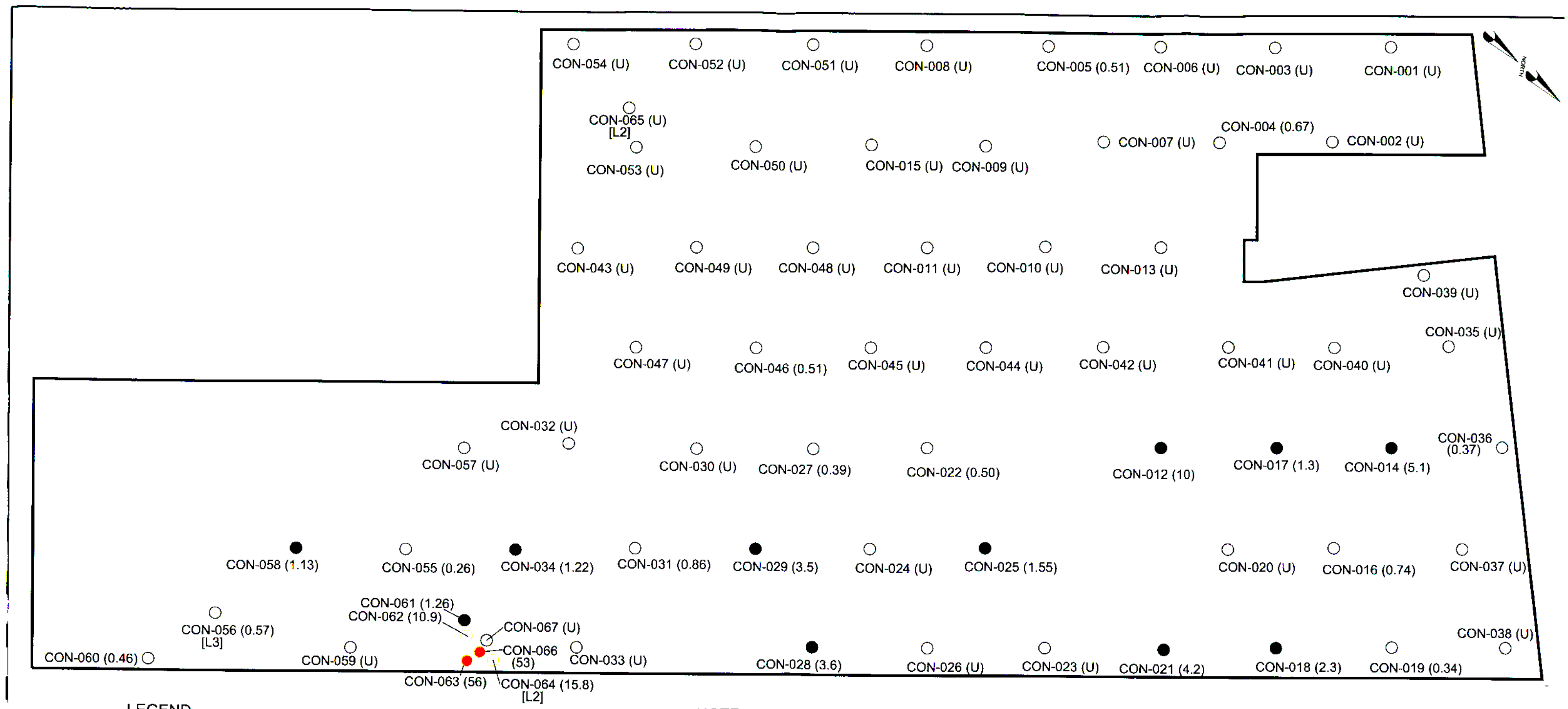
Figure 3-1
Wood Block Floor Areas
of Former Facility

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 8/29/07
SCALE: As Shown
DRAWN BY: LAR
PROJ. 129112



LEGEND

- ○ Total PCBs ≤ 1.0 mg/kg
- ● Total PCBs > 1.0 mg/kg and ≤ 10 mg/kg
- Total PCBs > 10 mg/kg and ≤ 25 mg/kg
- Total PCBs > 25 mg/kg and ≤ 100 mg/kg
- Building Number
- CON-001 (0.86) Sample Identification Number and Total PCB Concentration in mg/kg
- [L2] Floor level of sample [1st floor if no designation]
- (U) PCB Concentration below method detection limit

NOTE

1. Samples were collected from first floor level unless otherwise noted.

0 60 120

SCALE IN FEET

Figure 3-2
Concrete Sample Locations and PCB Results

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 8/30/07
SCALE: As Shown
DRAWN BY: LAR
PROJ 129112

PLAYGROUND

BROADWAY YARD

No. 9

No. 10

No. 11

WB-004

WB-003

No. 25

WB-002

WB-001

SYCAMORE STREET

No. 21

No. 28

SYCAMORE YARD

WB-100

No. 18

TOUSEY STREET

No. 13

No. 3

BOILER ROOM

No. 6

WB-010

WB-006

No. 12

No. 27

No. 23

No. 4

No. 2

Capacitor Room

No. 5

WB-009

No. 1

No. 8

No. 7

WB-011

No. 22

WB-008

MORTIMER STREET

LEGEND

- (G) Wood Block Floor Grab Sample
- (C) Wood Block Floor Composite Sample
- No. 1 Building number
- WB-001 Sample Identification Code
- —— —— Composite Sample Boundary

Figure 3-3
Wood Block Floor Sample Locations

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo	DATE: 8/29/07
	SCALE: As Shown
BROWN AND CALDWELL	DRAWN BY: LAR
	PROJ. 129112

PLAYGROUND

BROADWAY YARD

No. 9

No. 10

No. 11

G SAND-008

C SAND-101 C

No. 25

C

C SAND-100 C

C SAND-102 C

No. 21

No. 28

SYCAMORE YARD

C SAND-103 C

No. 18

NORTH

SYCAMORE STREET

TOUSEY STREET

No. 13

No. 3

BOILER ROOM

No. 4

No. 2

No. 6

C SAND-108 C

C

C

No. 12

C SAND-105 C

C

No. 27

No. 23

Capacitor Room

No. 5

No. 7

SAND-106

No. 1

No. 8

G SAND-022

C C

No. 22

C SAND-104 C

MORTIMER STREET

LEGEND

- Ⓖ Sand Sample
- Ⓒ Sand Composite Sample
- No. 1 Building number
- SAND-001 Sample Identification Code
- —— —— Composite Boundary

Figure 3-4
Sand Sample Locations

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/29/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112

PLAYGROUND

BROADWAY YARD

TOUSEY STREET

SYCAMORE STREET

SYCAMORE YARD

No. 9

No. 10

No. 11

No. 13

No. 21

No. 25

No. 28

No. 18

No. 3

No. 4

No. 2

No. 1

No. 8

BOILER ROOM

Capacitor Room

No. 6

No. 5

No. 7

No. 12

No. 27

No. 23

No. 22

WF-001 (L2)

WF-002 (L2)

WF-003 (L2)

WF-008 (L2)

WF-007 (L2)

WF-006 (L2)

WF-005 (L2)

WF-018 (L1)

WF-017 (L1)

WF-016 (L1)

WF-021 (L6)

WF-022 (L5)

WF-023 (L4)

WF-024 (L3)

WF-013 (L2)

WF-014 (L2)

WF-015 (L2)

WF-019 (L5)

WF-020 (L4)

WF-012 (L2)

WF-011 (L2)

WF-010 (L2)

WF-009 (L2)

MORTIMER STREET

LEGEND

- (G) Wood Floor Grab Sample
- No. 1 Building number
- WF-001 Sample Identification Code
- (L4) Floor level of sample

Figure 3-5
Wood Floor Sample Locations

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/28/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112

PLAYGROUND

BROADWAY YARD

TOUSEY STREET

SYCAMORE STREET

MORTIMER STREET

No. 1

No. 2

No. 3

No. 4

No. 5

No. 6

No. 7

No. 8

No. 9

No. 10

No. 11

No. 12

No. 13

No. 18

No. 21

No. 22

No. 23

No. 25

No. 27

No. 28

SYCAMORE YARD

BOILER ROOM

Capacitor Room

G AQ-001

G AQ-002

G AQ-003

G AQ-004

G AQ-005

G AQ-006

G AQ-007

G AQ-008

G AQ-009

G AQ-010

G AQ-011

G AQ-012

G AQ-013

G AQ-014

G AQ-015

G AQ-016

G AQ-017

G OIL-001

LEGEND

- G Aqueous Grab Sample
- No. 1 Building number
- AQ-001 Sample Identification Code
- (L4) Floor level of sample

Figure 3-6
Aqueous Sample Locations

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/28/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112

PLAYGROUND

BROADWAY YARD

TOUSEY STREET

MORTIMER STREET

SYCAMORE STREET

SYCAMORE YARD

No. 1

No. 2

No. 3

No. 4

No. 5

No. 6

No. 7

No. 8

No. 9

No. 10

No. 11

No. 12

No. 13

No. 18

No. 21

No. 22

No. 23

No. 25

No. 27

No. 28

BOILER ROOM

Capacitor Room

SED-001

SED-002

SED-003

SED-004

SED-005

SED-007

SED-008

SED-009

SED-010

SED-011

SED-012

SED-013

SED-014

SED-015

SED-016

SED-017

SED-018

SED-019

SED-020

SED-021

SED-022

SED-023

SED-024

LEGEND

- G — Sediment Grab Sample
- SED-001 — Sample Identification Code
- No. 1 — Building number
- (L4) — Floor level of sample

Figure 3-7
Sediment Sample Locations

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/28/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	128112

PLAYGROUND

BROADWAY YARD

TOUSEY STREET

MORTIMER STREET

SYCAMORE STREET

SYCAMORE YARD

BOILER ROOM

Capacitor Room

No. 1

No. 2

No. 3

No. 4

No. 5

No. 6

No. 7

No. 8

No. 9

No. 10

No. 11

No. 12

No. 13

No. 18

No. 21

No. 22

No. 23

No. 25

No. 27

No. 28

WIPE-001 (L2)

WIPE-002 (ON ROOF)

WIPE-003

WIPE-004 / WIPE-006

WIPE-005

WIPE-007

WIPE-008

WIPE-009

WIPE-010

WIPE-011

WIPE-012

WIPE-013

WIPE-014

WIPE-015

WIPE-016 (L2)

WIPE-017

WIPE-018

WIPE-019

WIPE-020

WIPE-021

WIPE-022

WIPE-023

WIPE-024

WIPE-025

WIPE-026

WIPE-027

LEGEND

- (G) Wipe Grab Sample
- WIPE-001 Sample Identification Code
- No. 1 Building number
- (L4) Floor level of sample

Figure 3-8
Wipe Sample Locations

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/28/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112

PLAYGROUND

BROADWAY YARD

Detail A
TSCA Area

SED-003
WIPE-007
CON-066
CON-063
WIPE-004

TOUSEY STREET

No. 9
No. 10
No. 11
No. 25
No. 28
No. 18
No. 21
No. 13
No. 3
No. 2
No. 1
No. 8
No. 4
No. 6
No. 5
No. 7
No. 12
No. 27
No. 23
No. 22

BOILER ROOM

Capacitor Room

See Detail A

SAND-103
SED-021
RCRA Area

No. 12
TSCA Area
SED-007

NORTH

MORTIMER STREET

0 60 120
SCALE IN FEET

LEGEND

No. 1 Building number
Sample greater than TSCA or RCRA regulatory limit
PCB Wipe Sample greater than 10 µg/100 sq cm and less than 100 µg/100 sq cm
Composited Samples
Limits of TSCA or RCRA decommissioning areas (as labeled)

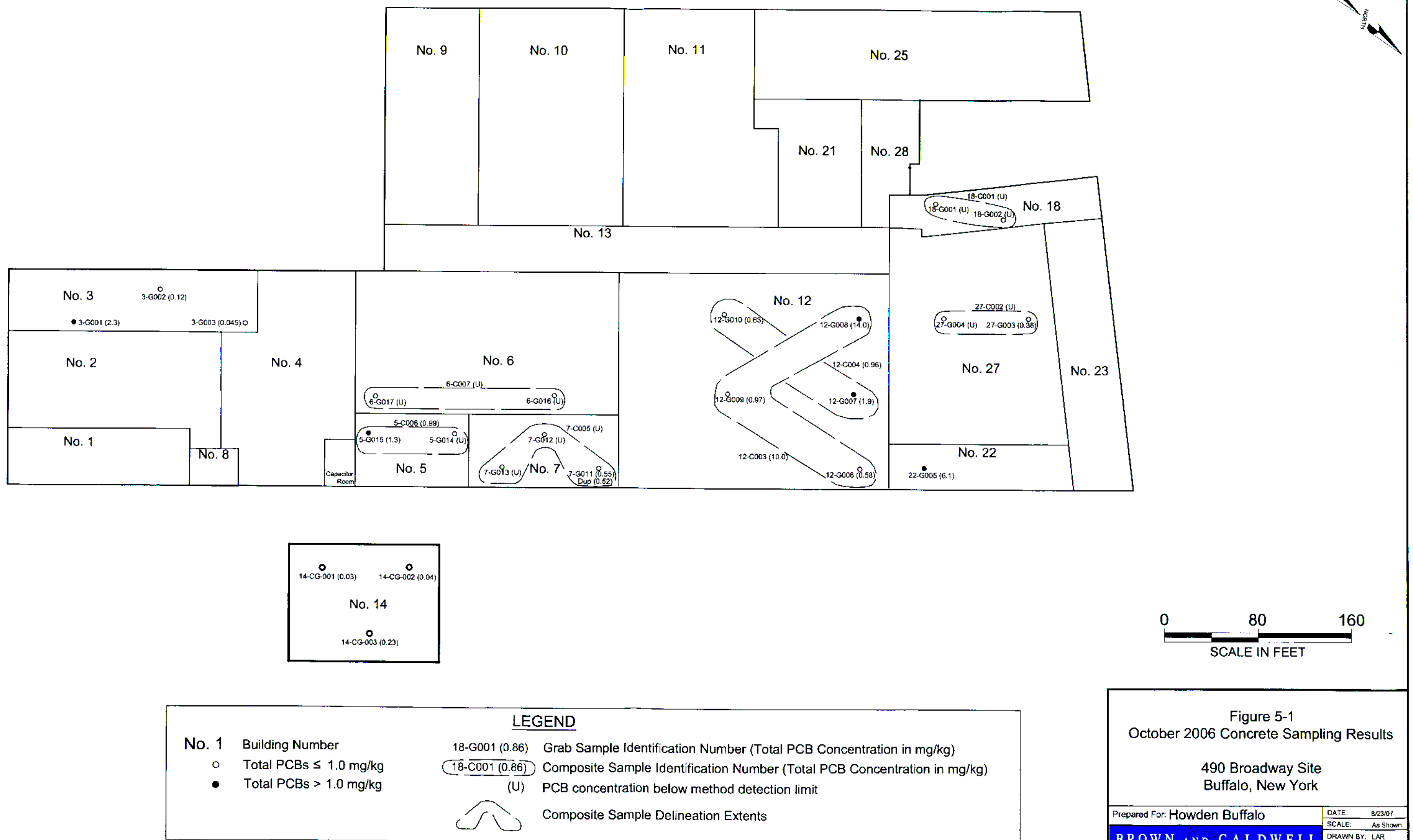
Figure 3-9
RCRA and TSCA
Decomissioning Areas

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 8/30/07
SCALE: As Shown
DRAWN BY: LAR
PROJ. 129112



LEGEND

No. 1	Building Number
○	Total PCBs ≤ 1.0 mg/kg
●	Total PCBs > 1.0 mg/kg
18-G001 (0.86)	Grab Sample Identification Number (Total PCB Concentration in mg/kg)
18-C001 (0.86)	Composite Sample Identification Number (Total PCB Concentration in mg/kg)
(U)	PCB concentration below method detection limit
	Composite Sample Delineation Extents

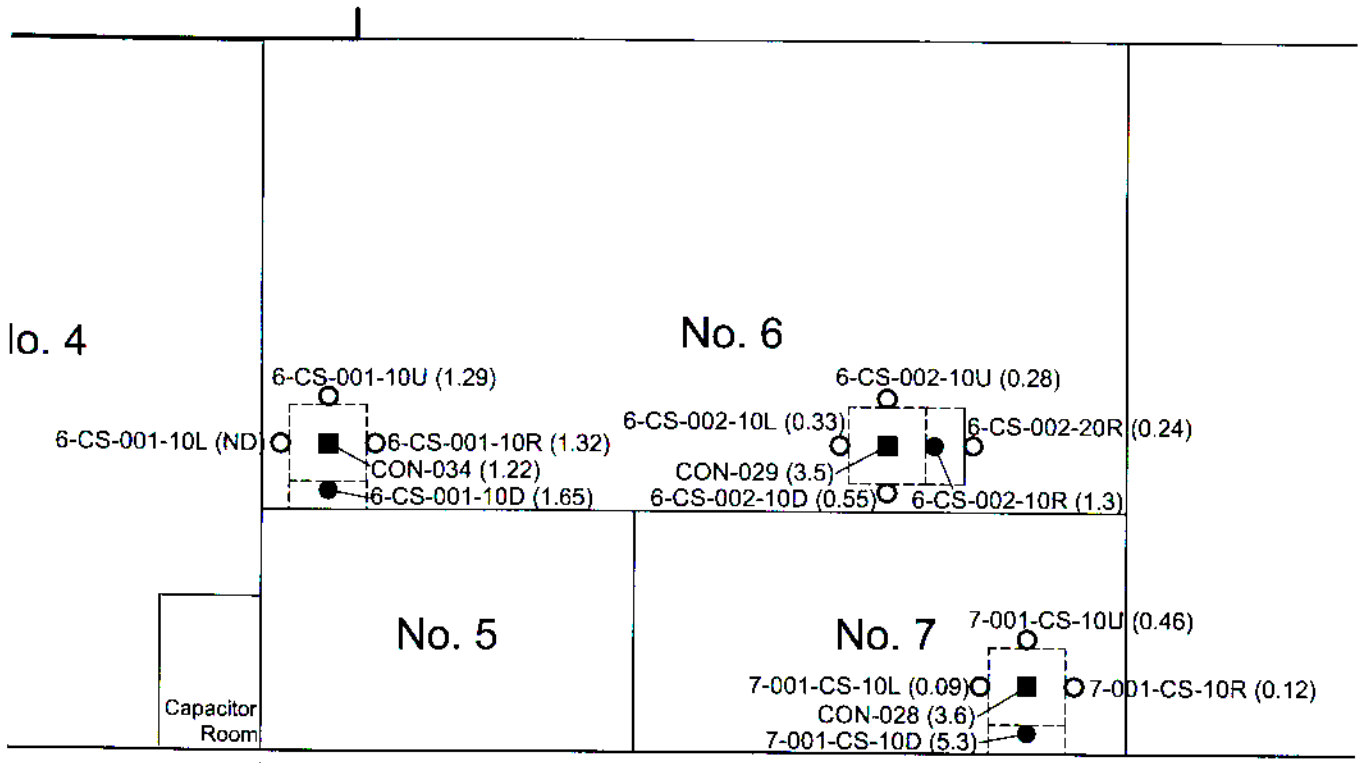
Figure 5-1
October 2006 Concrete Sampling Results

490 Broadway Site
Buffalo, New York

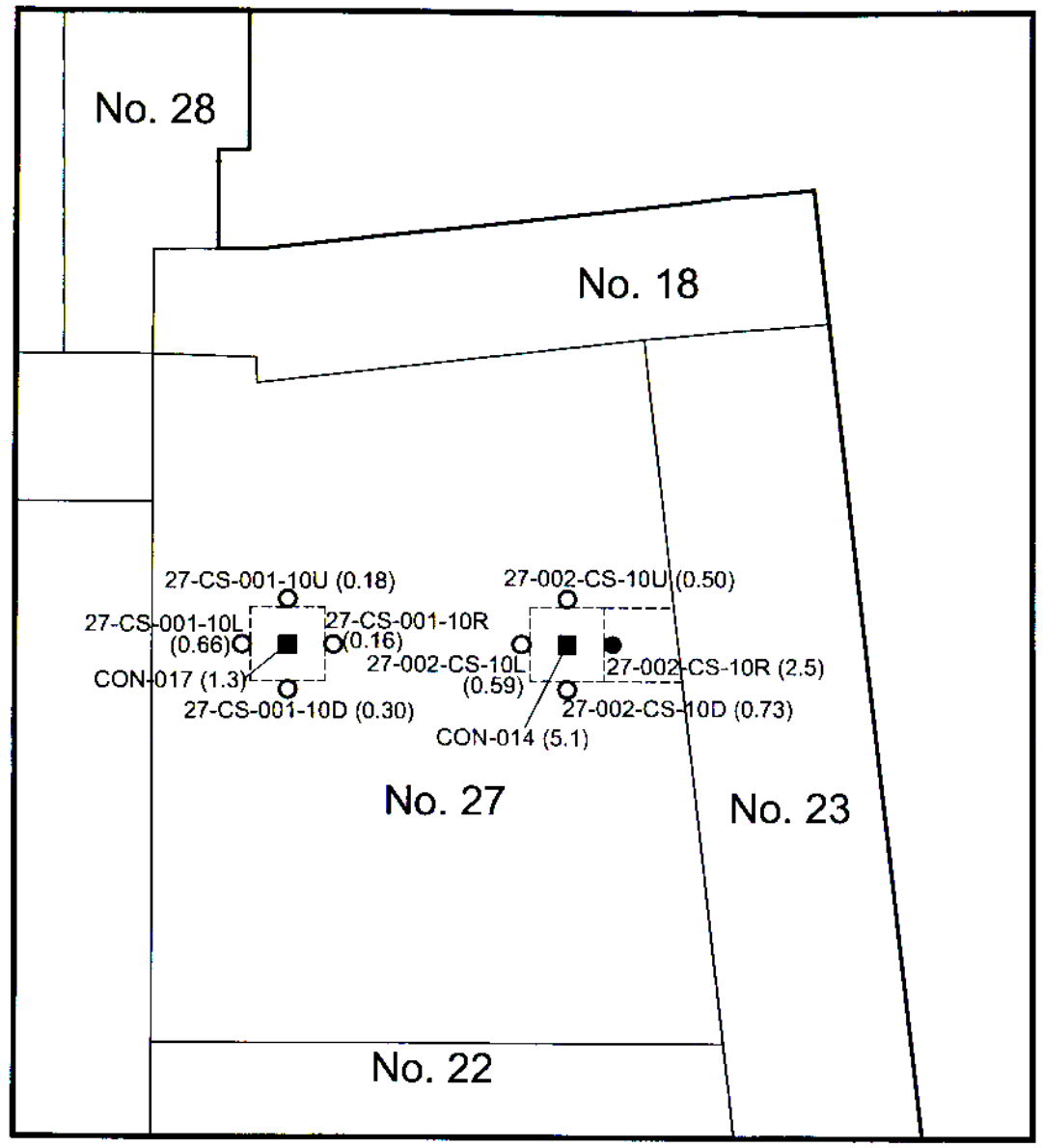
Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/23/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112



BUILDINGS 6 AND 7



BUILDING 27

ALL VIEWS

LEGEND

- Sampling Area and Limits of Concrete to be landfilled
- ● Total PCBs > 1.0 mg/kg
- ○ Total PCBs < 1.0 mg/kg
- ■ Total PCBs > 1.0 mg/kg (Fall 2005 - see Figure 3-2)

0 50 100

SCALE IN FEET
ALL VIEWS

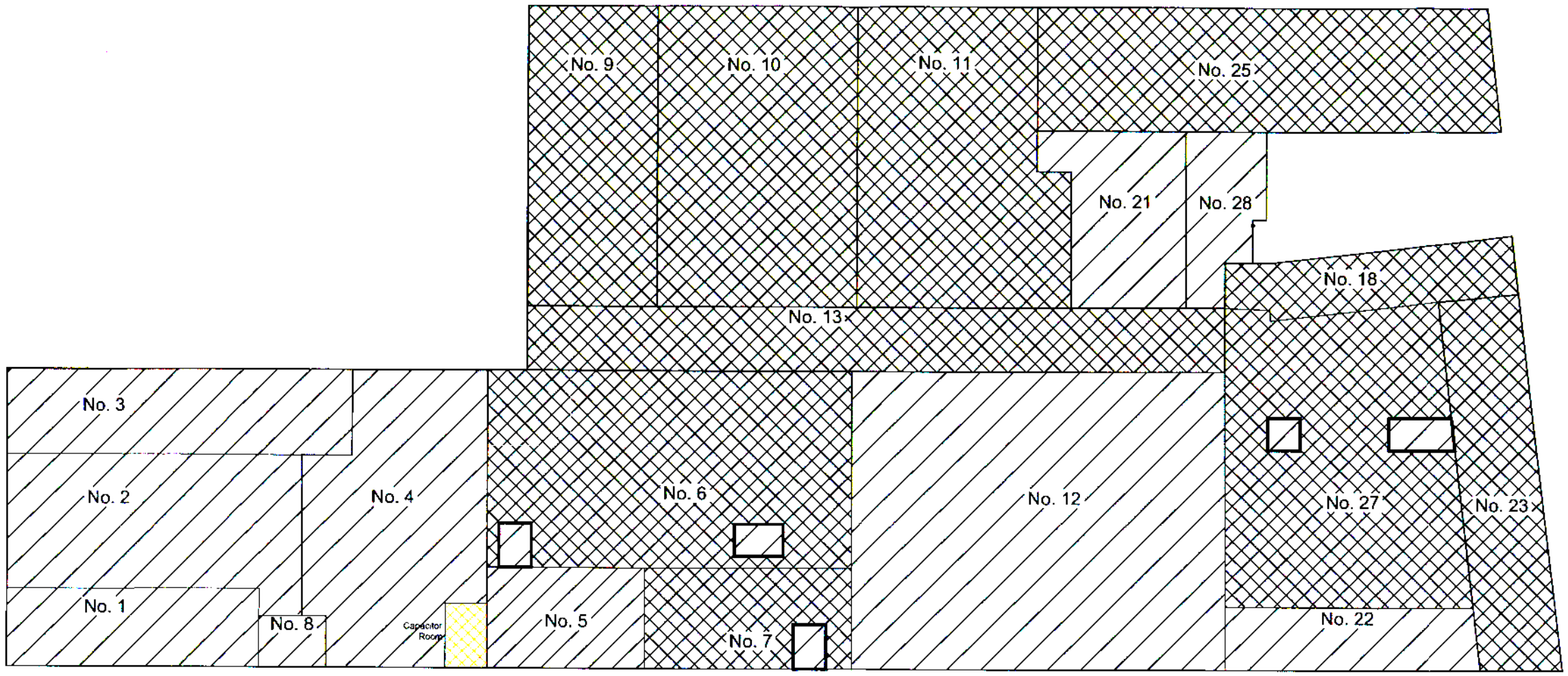
Figure 5-2
Additional Concrete Delineation Samples for Disposal Decisions

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 8/30/07
SCALE: As Shown
DRAWN BY: LAR
PROJ. 129112



LEGEND

- Areas where concrete slab was removed and disposed at a RCRA Subtitle D landfill
- Areas where concrete slab was removed and disposed at a TSCA-permitted landfill
- Areas where concrete slab was removed and recycled at a recycling facility
- Limits of concrete segregated and disposed at a RCRA Subtitle D landfill

Note: Concrete slab from Buildings 1, 4, 8, 21, 28 and a portion of Building 2 were not impacted with PCBs. This slab material was disposed as part of the asbestos-containing material debris.

0 80 160

SCALE IN FEET

Figure 5-3
Management of Concrete Slabs

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/30/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ	129112

SPRING STREET

PLAYGROUND

BROADWAY YARD

BROADWAY

SYCAMORE STREET

MORTIMER STREET

NORTH

0 80 160

SCALE IN FEET

LEGEND

- Ⓢ Sewer Utility Disconnect
- Ⓖ Gas Utility Disconnect
- Ⓦ Water Utility Disconnect

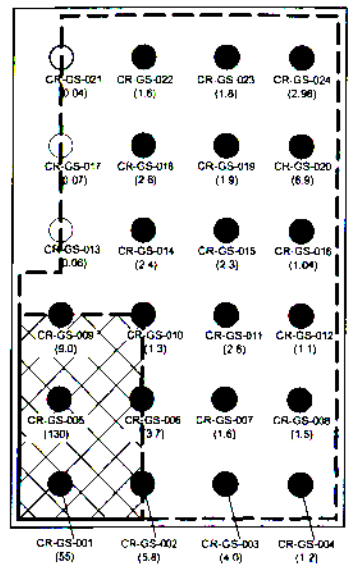
Figure 5-4
Utility Disconnect Locations

Former Buffalo Forge Facility
490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	9/13/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112



Detail A
(1"=15')

Note: All samples were collected from the 0" - 6" depth interval.

LEGEND

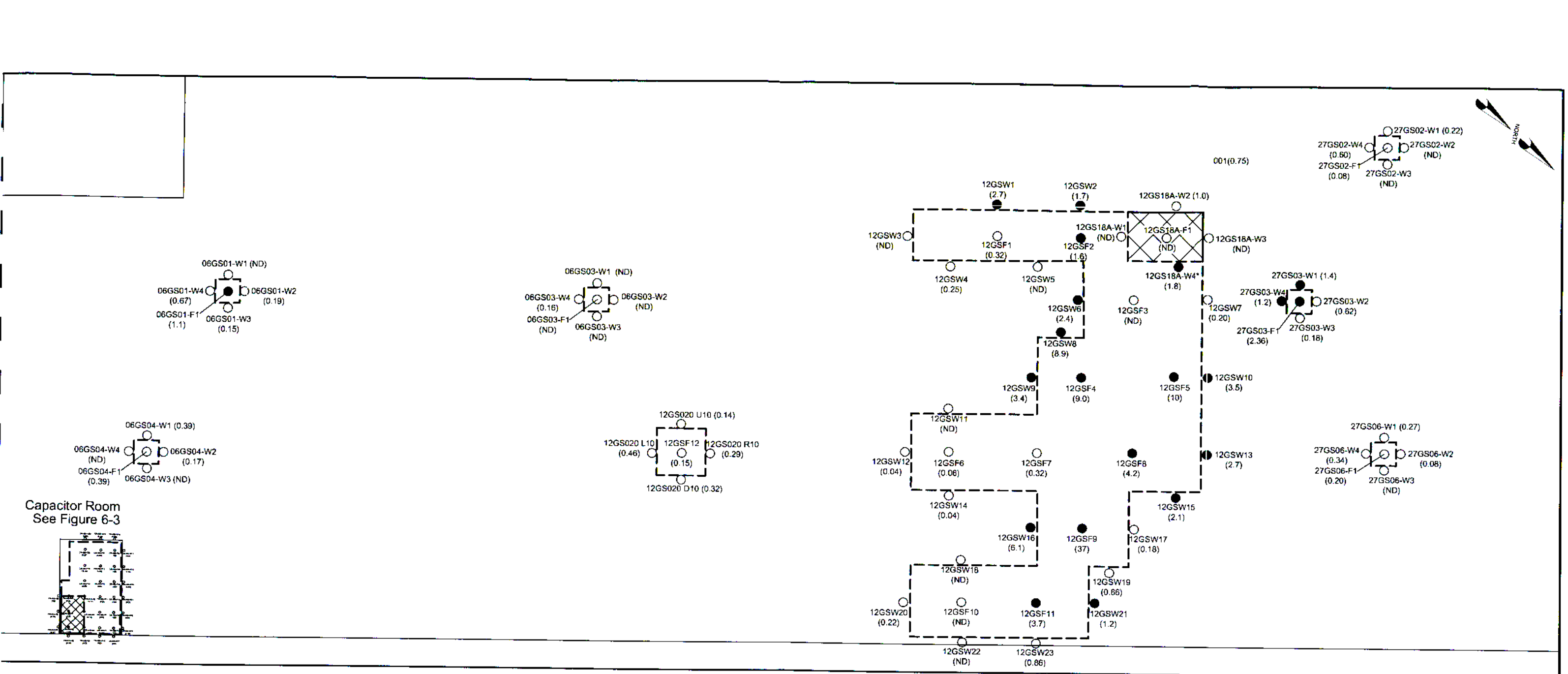
- ○ Total PCBs ≤ 1.0 mg/kg [Remediation Not Required]
- ● Total PCBs > 1.0 mg/kg [Remediation Required]
- Building Number
- Initial Soil Excavation Extents
- 5-GS-001(3.2) Sample I.D. Number (PCB Sample Result in mg/kg)
- TSCA Remediation Area [PCBs > 50 mg/kg]

0 60 120
SCALE IN FEET

Figure 6-1
Initial Sub-Slab Soil Sample Results

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo	DATE:	8/30/07
	SCALE:	As Shown
BROWN AND CALDWELL	DRAWN BY:	LAR
	PROJ.	129112



MORTIMER STREET

Note: Round 1 excavation depth = 1 ft.

LEGEND

- ○ Total PCBs ≤ 1.0 mg/kg [Additional remediation not required]
- ● Total PCBs > 1.0 mg/kg [Additional remediation required]
- Building Number
- – – – Extent of Round 1 Soil Excavation
- 12GSW1 Round 1 Confirmation Sample I.D. Number
- TSCA Remediation Area

*Samples taken to delineate extents of TSCA Remediation Area. Samples exceeded 1mg/kg but did not exceed 50mg/kg.

0 40 80
SCALE IN FEET

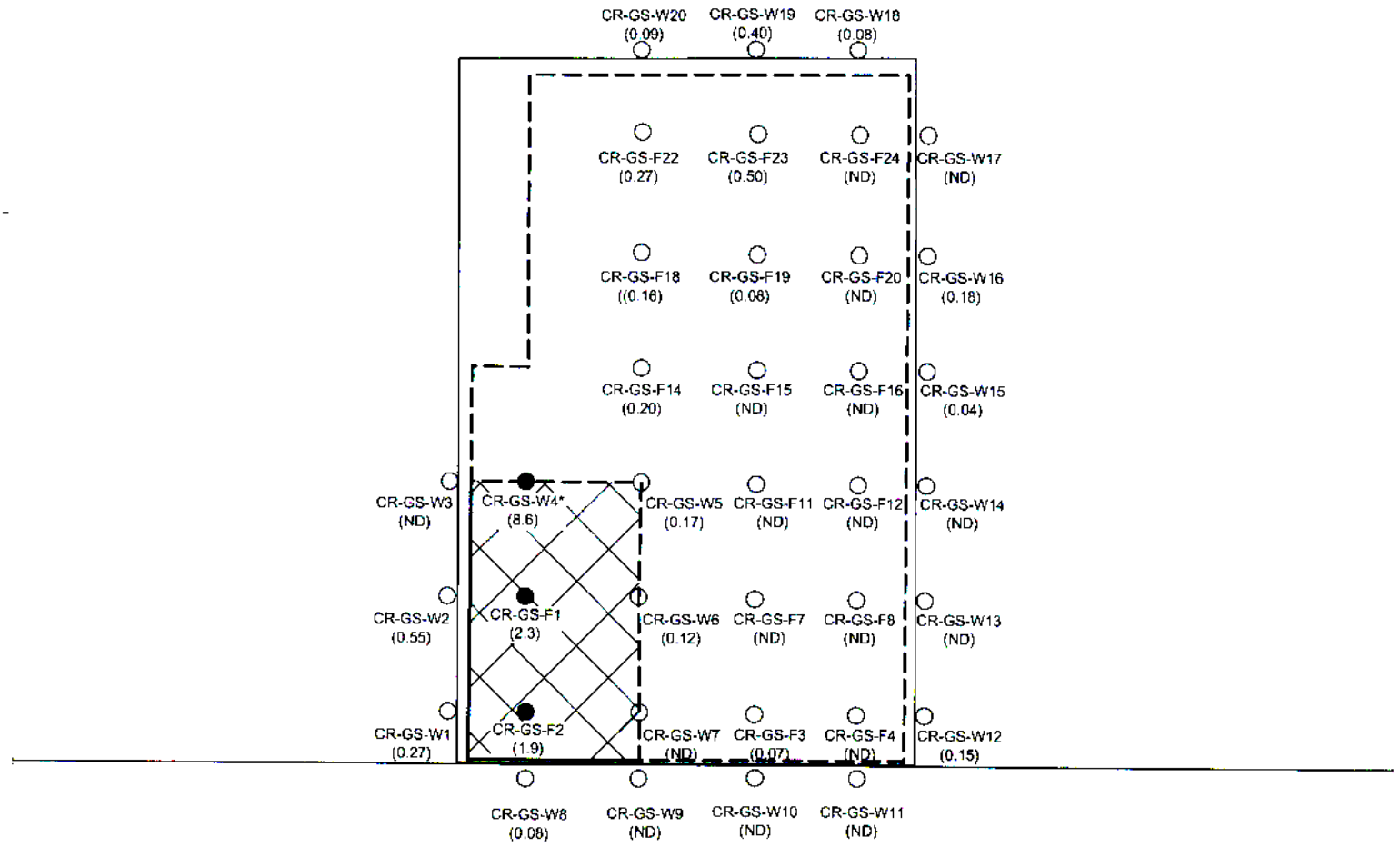
Figure 6-2
Round 1 PCB Soil Excavation and Post Excavation Sample Results

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/30/07
SCALE:	AS SHOWN
DRAWN BY:	LAR
PROJ	129112



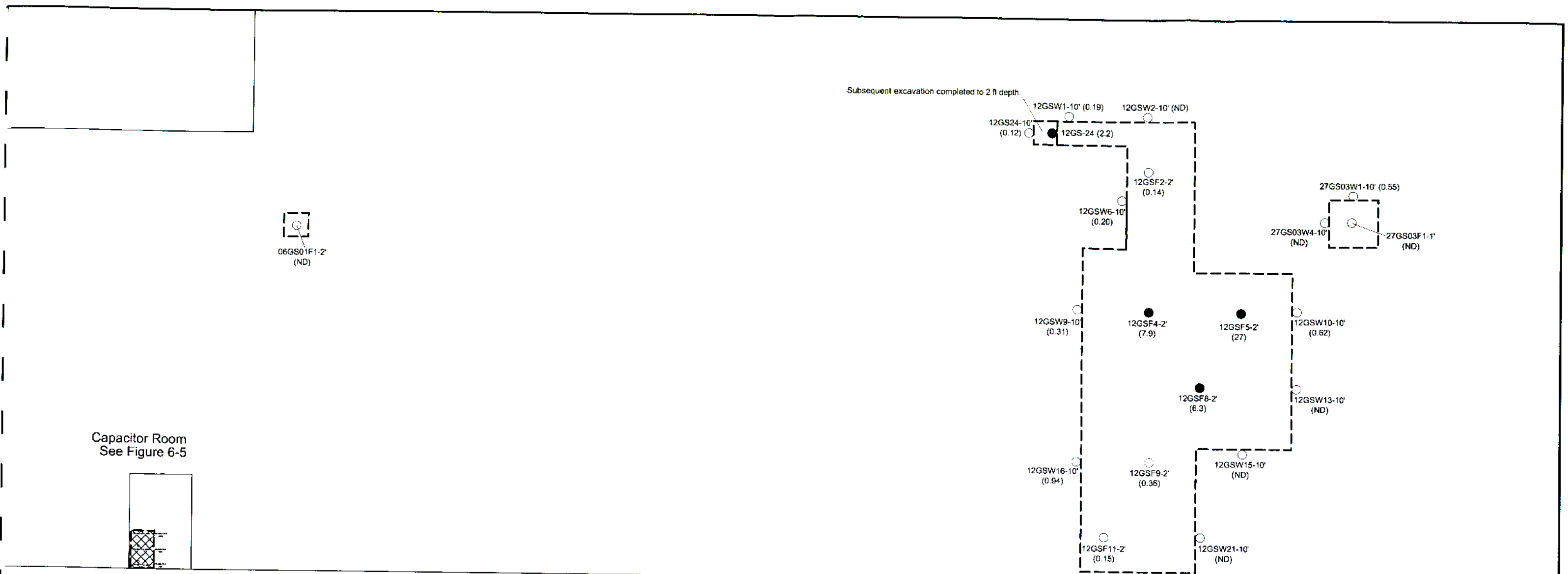
LEGEND

- ○ Total PCBs ≤ 1.0 mg/kg [Additional remediation not required]
- ● Total PCBs > 1.0 mg/kg [Additional remediation required]
- Building Number
- – – – Extent of Round 1 Soil Excavation
- CR-GS-W1 Round 1 Confirmation Sample I.D. Number
- TSCA Remediation Area

Note: Round 1 excavation depth = 1 ft.

Figure 6-3
Round 1 PCB Soil Excavation and Post Excavation Sample Results in Capacitor Room
490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo
BROWN AND CALDWELL
DATE: 8/30/07
SCALE: AS SHOWN
DRAWN BY: LAR



Note: Round 2 excavation depth = 2 ft.

LEGEND

- ○ Total PCBs ≤ 1.0 mg/kg [Additional remediation not required]
- ● Total PCBs > 1.0 mg/kg [Additional remediation required]
- Building Number
- TSCA Remediation Area
- – – – Extent of Round 2 Soil Excavation
- Extent of Previous Round of Soil Excavation
- 12-GS-W9-10' Round 2 Confirmation Sample I.D. Number

0 40 80
SCALE IN FEET

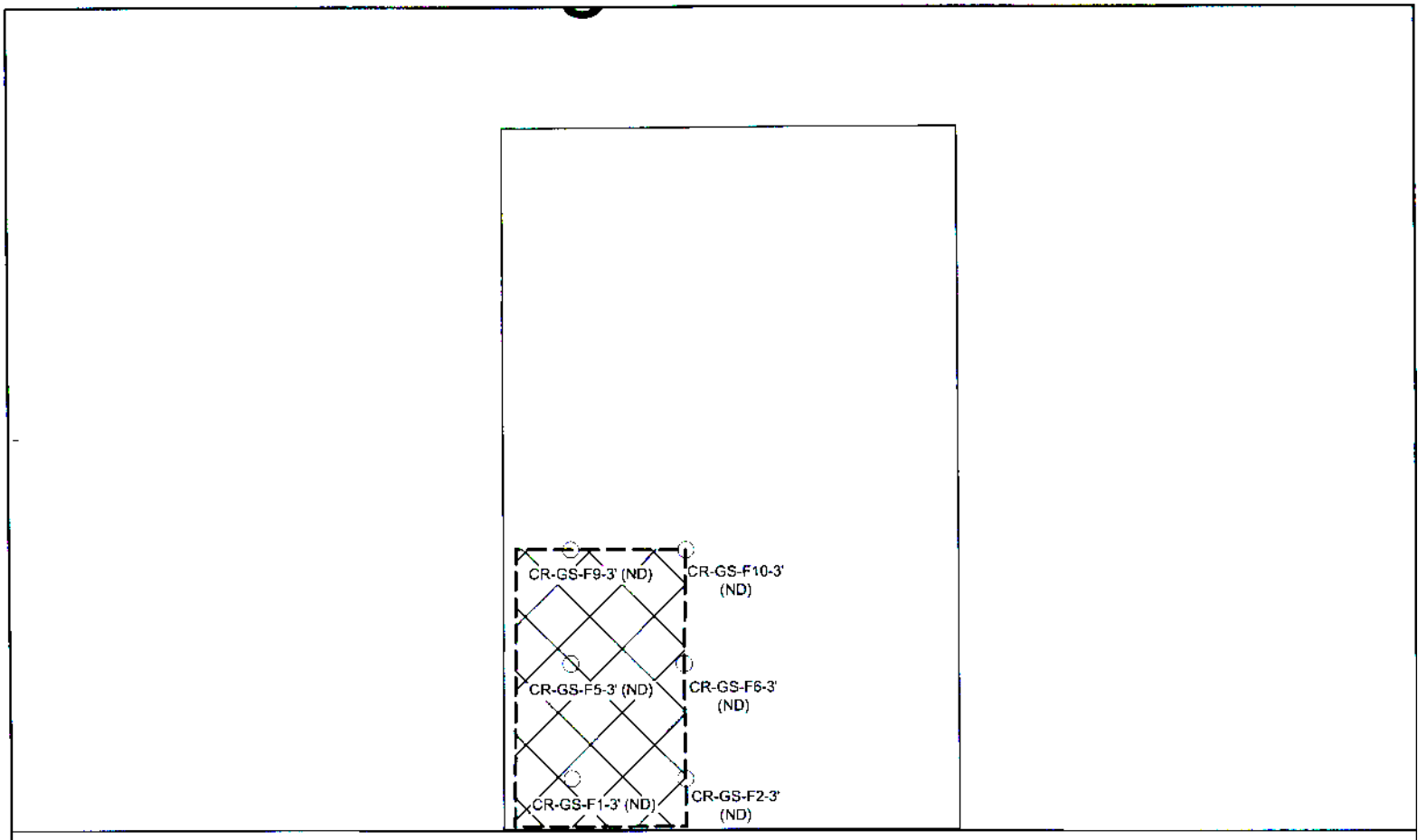
Figure 6-4
Round 2 PCB Soil Excavation and Post Excavation Sample Results

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/30/07
SCALE:	AS SHOWN
DRAWN BY:	LAR
PROJ.	129112



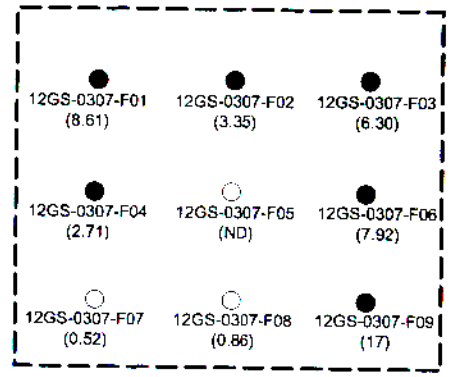
LEGEND

- Total PCBs ≤ 1.0 mg/kg [Additional remediation not required]
- Building Number
- Extent of Round 2 Soil Excavation
- Extent of Previous Round of Soil Excavation
- 06GS01F1-2' Round 2 Confirmation Sample I.D. Number
- TSCA Remediation Area

Note: Round 2 excavation depth = 3 ft.

Figure 6-5
Round 2 PCB Soil Excavation and Post Excavation Sample Results in Capacitor Room
490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo
BROWN AND CALDWELL
DATE: 8/30/07
SCALE: AS SHOWN
DRAWN BY: LAR



Capacitor Room

Note: Round 3 excavation depth = 3 ft.

LEGEND

- ○ Total PCBs ≤ 1.0 mg/kg [Additional remediation not required]
- ● Total PCBs > 1.0 mg/kg [Additional remediation required]
- Building Number
- – – – Extent of Round 3 Soil Excavation
- Extent of Previous Round of Soil Excavation
- 12-GS-W24-10' Round 3 Confirmation Sample I.D. Number

0 40 80

SCALE IN FEET

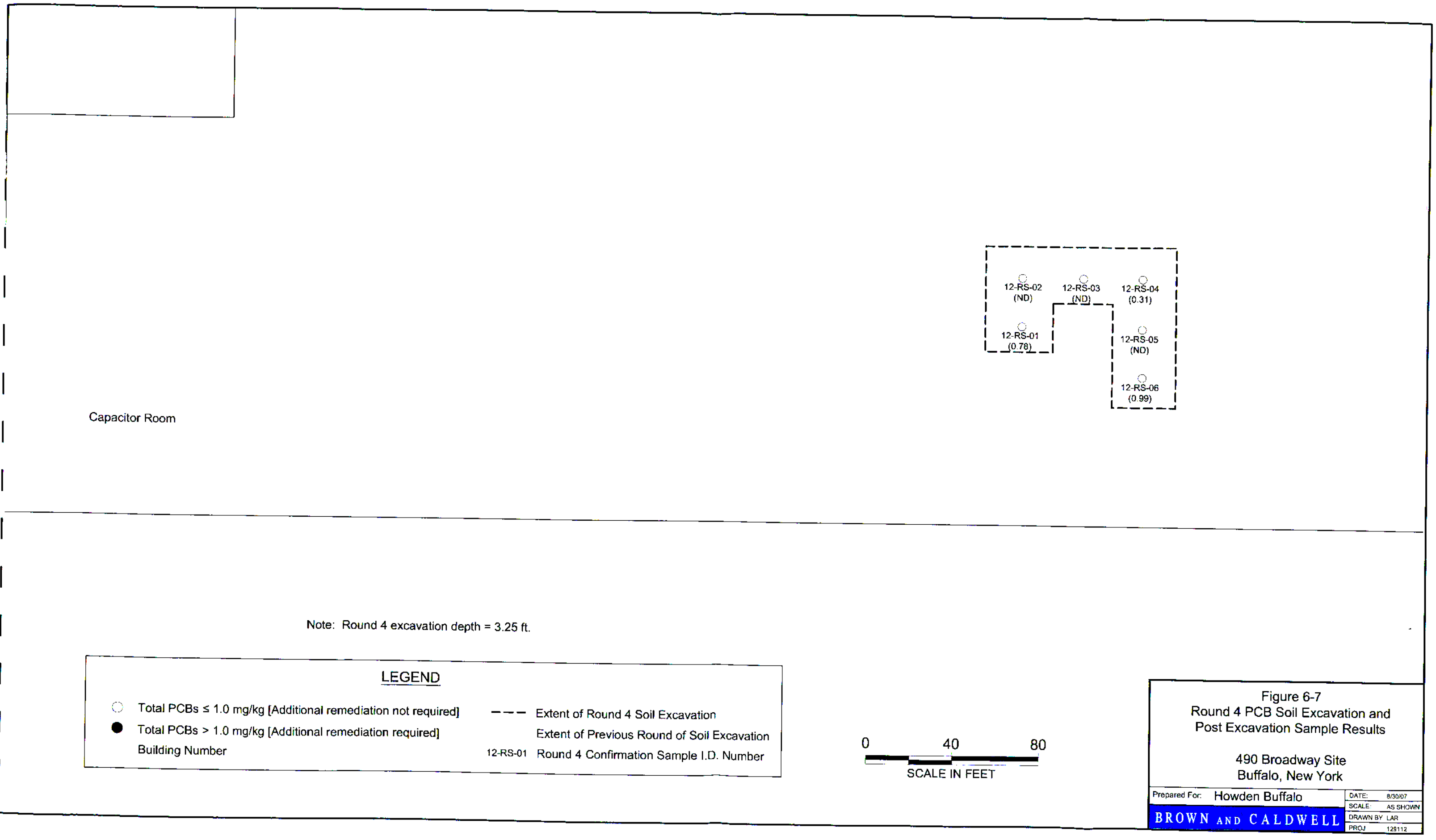
Figure 6-6
Round 3 PCB Soil Excavation and
Post Excavation Sample Results

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 8/29/07
SCALE: AS SHOWN
DRAWN BY: LAR
PROJ. 129112



Note: Round 4 excavation depth = 3.25 ft.

LEGEND

- ○ Total PCBs ≤ 1.0 mg/kg [Additional remediation not required]
- ● Total PCBs > 1.0 mg/kg [Additional remediation required]
- Building Number
- – – – Extent of Round 4 Soil Excavation
- Extent of Previous Round of Soil Excavation
- 12-RS-01 Round 4 Confirmation Sample I.D. Number

0 40 80
SCALE IN FEET

Figure 6-7
Round 4 PCB Soil Excavation and Post Excavation Sample Results

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE: 8/30/07
SCALE: AS SHOWN
DRAWN BY LAR
PROJ 129112

Foundry Sand Pit 6'

5' UST Excavation

Former UST Location

4'

Building 10
Excavation Area

4'

Building 25
Excavation Area

NORTH

Former UST Location

5'

UST Excavation

2'

1'

1'

1'

2'

1'

3.25'

1'

3'

1'

2'

1'

1'

Capacitor Room

1'

3'

LEGEND

Building Number

2' Total Soil Excavation Depth (in feet)

Extent of Completed Soil Excavation

0 60 120

SCALE IN FEET

Figure 6-8
Soil Remediation Summary

490 Broadway Site
Buffalo, New York

Prepared For: Howden Buffalo

BROWN AND CALDWELL

DATE:	8/30/07
SCALE:	As Shown
DRAWN BY:	LAR
PROJ.	129112

APPENDIX A

Sample Analytical Results in UST Excavations

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

03/12/07

Technical Report for

Brown and Caldwell GA

Howden Bufflao Buffalo NY

131303.002

Accutest Job Number: M63253

Sampling Date: 03/07/07

Report to:

Brown and Caldwell GA

lrykowski@brwncald.com

ATTN: Lauren A. Rykowski

Total number of pages in report: 22

ACCREDITED IN ACCORDANCE WITH nelac

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

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579) NY (23346) NJ (MA926) NAVY USACE

Table of Contents

Sections: 1 2 3

Accutest Laboratories

Report of Analysis

Client Sample ID:	04-UST-EW2-60		
Lab Sample ID:	M63253-11	**Date Sampled:**	03/07/07
Matrix:	SO - Soil	**Date Received:**	03/08/07
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Howden Bufflao Buffalo NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L21512.D	1	03/09/07	AMY	n/a	n/a	MSL697
Run #2							

	Initial Weight	Final Volume
Run #1	1.58 g	1.0 ml
Run #2		

VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	10.1	1.9	ug/kg	
104-51-8	n-Butylbenzene	ND	19	ug/kg	
135-98-8	sec-Butylbenzene	ND	19	ug/kg	
98-06-6	tert-Butylbenzene	ND	19	ug/kg	
100-41-4	Ethylbenzene	ND	7.6	ug/kg	
98-82-8	Isopropylbenzene	ND	19	ug/kg	
99-87-6	p-Isopropyltoluene	ND	19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	7.6	ug/kg	
91-20-3	Naphthalene	ND	19	ug/kg	
103-65-1	n-Propylbenzene	ND	19	ug/kg	
108-88-3	Toluene	24.1	19	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	20.1	19	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	19	ug/kg	
	m,p-Xylene	52.1	7.6	ug/kg	
95-47-6	o-Xylene	20.7	7.6	ug/kg	
1330-20-7	Xylene (total)	72.8	7.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	106%		73-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
75-28-5	Isobutane	4.29	88	ug/kg	JN
106-97-8	Butane	4.58	110	ug/kg	JN
78-78-4	Butane, 2-methyl-	5.48	97	ug/kg	JN
109-66-0	Pentane	5.86	84	ug/kg	JN
16276-45-2	Ethanamine, N-chloro-N,1,1-trifluoro-	6.19	65	ug/kg	JN
75-09-2	Methylene Chloride	6.42	33	ug/kg	JNB
107-81-3	Pentane, 2-bromo-	7.14	42	ug/kg	JN

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	04-UST-EW2-60		
Lab Sample ID:	M63253-11	**Date Sampled:**	03/07/07
Matrix:	SO - Soil	**Date Received:**	03/08/07
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Howden Bufflao Buffalo NY		

VOA STARS List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
110-54-3	Hexane	7.74	51	ug/kg	JN
142-82-5	Heptane	9.75	29	ug/kg	JN
108-87-2	Cyclohexane, methyl-	10.40	50	ug/kg	JN
	Total TIC, Volatile		616	ug/kg	J

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	04-UST-EW2-70		
Lab Sample ID:	M63253-12	**Date Sampled:**	03/07/07
Matrix:	SO - Soil	**Date Received:**	03/08/07
Method:	SW846 8270C SW846 3545	**Percent Solids:**	84.9
Project:	Howden Bufflao Buffalo NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44300.D	1	03/10/07	AT	03/09/07	OP13134	MSI1376
Run #2							

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

BN STARS List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		20-118%
321-60-8	2-Fluorobiphenyl	77%		30-115%
1718-51-0	Terphenyl-d14	65%		32-126%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1116-98-9	Acetic acid, cyano-, 1,1-dimethyle	4.26	19000	ug/kg	JNB
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 02/21/07
Work Order Number: 7B13008

Prepared For
Jeff Shirley

Sevenson Environmental Services

2749 Lockport Road

Niagara Falls, NY 14302

Fax: (716) 285-4201

Site: Buffalo Forge E916

Enclosed are the results of analyses for samples received by the laboratory on 02/13/07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East	7B13008-01	Soil	02/13/07 10:15	02/13/07 12:05
West	7B13008-02	Soil	02/13/07 10:15	02/13/07 12:05
North	7B13008-03	Soil	02/13/07 10:15	02/13/07 12:05
South	7B13008-04	Soil	02/13/07 10:15	02/13/07 12:05
Stockpile	7B13008-05	Soil	02/13/07 10:15	02/13/07 12:05
Water	7B13008-06	Water	02/13/07 10:15	02/13/07 12:05

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East (7B13008-01) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Mercury	**0.361**	0.011	mg/kg dry	1	AB71904	02/19/07	02/19/07	EPA 7471A	
Silver	ND	2.50	"	5	AB71520	02/15/07	02/15/07	EPA 6010B	
Aluminum	**9910**	12.5	"	"	"	"	"	"	
Arsenic	**11.1**	8.50	"	"	"	"	"	"	
Barium	**152**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**66200**	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**7.28**	5.00	"	"	"	"	"	"	
Chromium	**17.5**	5.00	"	"	"	"	"	"	
Copper	**40.7**	5.00	"	"	"	"	"	"	
Iron	**17300**	41.5	"	"	"	"	"	"	
Magnesium	**26300**	60.0	"	"	"	"	"	"	
Manganese	**491**	5.00	"	"	"	"	"	"	
Nickel	**16.1**	5.00	"	"	"	"	"	"	
Lead	**138**	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**18.4**	5.00	"	"	"	"	"	"	
Zinc	**290**	20.0	"	"	"	"	"	"	
Potassium	**1800**	14.0	"	1	AB71521	"	02/20/07	"	
Sodium	**372**	45.0	"	"	"	"	"	"	
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Mercury	**0.104**	0.011	mg/kg dry	1	AB71904	02/19/07	02/19/07	EPA 7471A	
Silver	ND	2.50	"	5	AB71520	02/15/07	02/15/07	EPA 6010B	
Aluminum	**12400**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	
Barium	**111**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**26400**	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**6.65**	5.00	"	"	"	"	"	"	
Chromium	**16.9**	5.00	"	"	"	"	"	"	
Copper	**18.2**	5.00	"	"	"	"	"	"	
Iron	**17300**	41.5	"	"	"	"	"	"	
Magnesium	**10000**	60.0	"	"	"	"	"	"	
Manganese	**343**	5.00	"	"	"	"	"	"	
Nickel	**20.9**	5.00	"	"	"	"	"	"	
Lead	**46.3**	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Selenium	ND	7.00	mg/kg dry	5	AB71520	02/15/07	02/15/07	EPA 6010B	
Thallium	**6.17**	5.00	"	"	"	"	"	"	
Vanadium	**19.4**	5.00	"	"	"	"	"	"	
Zinc	**78.5**	20.0	"	"	"	"	"	"	
Potassium	**1420**	14.0	"	1	AB71521	"	02/20/07	"	
Sodium	**188**	45.0	"	"	"	"	"	"	
North (7B13008-03) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Mercury	**0.168**	0.012	mg/kg dry	1	AB71904	02/19/07	02/19/07	EPA 7471A	
Silver	ND	2.50	"	5	AB71520	02/15/07	02/15/07	EPA 6010B	
Aluminum	**7900**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	02/15/07	"	
Barium	**101**	5.00	"	"	"	"	02/15/07	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**35900**	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	02/15/07	"	
Cobalt	**6.16**	5.00	"	"	"	"	"	"	
Chromium	**14.8**	5.00	"	"	"	"	"	"	
Copper	**29.8**	5.00	"	"	"	"	02/15/07	"	
Iron	**18300**	41.5	"	"	"	"	"	"	
Magnesium	**11500**	60.0	"	"	"	"	"	"	
Manganese	**558**	5.00	"	"	"	"	"	"	
Nickel	**16.0**	5.00	"	"	"	"	02/15/07	"	
Lead	**90.2**	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	**6.11**	5.00	"	"	"	"	"	"	
Vanadium	**17.5**	5.00	"	"	"	"	02/15/07	"	
Zinc	**122**	20.0	"	"	"	"	02/15/07	"	
Potassium	**1040**	14.0	"	1	AB71521	"	02/20/07	"	
Sodium	**257**	45.0	"	"	"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Metals by EPA 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South (7B13008-04) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Mercury	**0.183**	0.012	mg/kg dry	1	AB71904	02/19/07	02/19/07	EPA 7471A	
Silver	ND	2.50	"	5	AB71520	02/15/07	02/15/07	EPA 6010B	
Aluminum	**10900**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	02/15/07	"	
Barium	**96.9**	5.00	"	"	"	"	02/15/07	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**48200**	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	02/15/07	"	
Cobalt	**7.21**	5.00	"	"	"	"	"	"	
Chromium	**16.1**	5.00	"	"	"	"	"	"	
Copper	**20.2**	5.00	"	"	"	"	02/15/07	"	
Iron	**16900**	41.5	"	"	"	"	"	"	
Magnesium	**16000**	60.0	"	"	"	"	"	"	
Manganese	**392**	5.00	"	"	"	"	"	"	
Nickel	**19.5**	5.00	"	"	"	"	02/15/07	"	
Lead	**24.8**	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**18.3**	5.00	"	"	"	"	02/15/07	"	
Zinc	**67.8**	20.0	"	"	"	"	02/15/07	"	
Potassium	**1650**	14.0	"	1	AB71521	"	02/20/07	"	
Sodium	**202**	45.0	"	"	"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

TCLP Metals by 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Mercury	ND	0.001	mg/L	1	AB72004	02/20/07	02/21/07	EPA 7470A-TCLP	U
Silver	ND	0.025	"	5	AB71516	02/15/07	02/15/07	6010B	U
Arsenic	ND	0.045	"	"	"	"	02/15/07	"	U
Barium	**0.429**	0.025	"	"	"	"	02/15/07	"	B
Cadmium	ND	0.025	"	"	"	"	02/15/07	"	U
Chromium	ND	0.025	"	"	"	"	"	"	U
Lead	ND	0.075	"	"	"	"	"	"	U
Selenium	ND	0.095	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East (7B13008-01) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Alpha-BHC	ND	0.400	ug/kg dry	1	AB71513	02/15/07	02/20/07	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	**194**	3.30	"	"	"	"	"	"	
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*99.5 %*		*61-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*283 %*		*56-136*	"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Alpha-BHC	ND	0.400	ug/kg dry	1	AB71513	02/15/07	02/20/07	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	**149**	3.30	"	"	"	"	"	"	
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*97.3 %*	*61-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*101 %*	*56-136*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North (7B13008-03) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Alpha-BHC	ND	0.400	ug/kg dry	1	AB71513	02/15/07	02/20/07	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	**137**	3.30	"	"	"	"	"	"	
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*101 %*		*61-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*270 %*		*56-136*	"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South (7B13008-04) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Alpha-BHC	ND	0.400	ug/kg dry	1	AB71513	02/15/07	02/20/07	8081A/8082	U
Beta-BHC	ND	0.400	"	"	"	"	"	"	U
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	U
Delta-BHC	ND	0.400	"	"	"	"	"	"	U
Heptachlor	ND	0.400	"	"	"	"	"	"	U
Aldrin	ND	0.400	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"	U
Endosulfan I	ND	0.400	"	"	"	"	"	"	U
Dieldrin	ND	0.400	"	"	"	"	"	"	U
4,4'-DDE	ND	0.400	"	"	"	"	"	"	U
Endrin	ND	0.400	"	"	"	"	"	"	U
Endosulfan II	ND	0.400	"	"	"	"	"	"	U
4,4'-DDD	ND	0.400	"	"	"	"	"	"	U
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"	U
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"	U
4,4'-DDT	ND	0.400	"	"	"	"	"	"	U
Endrin Ketone	ND	0.400	"	"	"	"	"	"	U
Methoxychlor	ND	0.400	"	"	"	"	"	"	U
Chlordane	ND	6.70	"	"	"	"	"	"	U
Toxaphene	ND	8.30	"	"	"	"	"	"	U
Aroclor 1016	ND	3.30	"	"	"	"	"	"	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	**271**	3.30	"	"	"	"	"	"	
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*92.8 %*	*61-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*311 %*	*56-136*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Aroclor 1016	ND	3.30	ug/kg dry	1	AB71513	02/15/07	02/20/07	8082	U
Aroclor 1221	ND	3.30	"	"	"	"	"	"	U
Aroclor 1232	ND	3.30	"	"	"	"	"	"	U
Aroclor 1242	ND	3.30	"	"	"	"	"	"	U
Aroclor 1248	ND	3.30	"	"	"	"	"	"	U
Aroclor 1254	ND	3.30	"	"	"	"	"	"	U
Aroclor 1260	ND	3.30	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*93.0 %*		*61-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*113 %*		*56-136*	"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East (7B13008-01) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
chloromethane	ND	10	ug/kg dry	1	AB71414	02/14/07	02/14/07	8260	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	**158**	10	"	"	"	"	"	"	
carbon disulfide	**3**	2	"	"	"	"	"	"	
methylene chloride	**44**	2	"	"	"	"	"	"	B
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
vinyl acetate	ND	10	"	"	"	"	"	"	U
2-butanone	**37**	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	**13**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	**29**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
2-hexanone	ND	10	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
ethylbenzene	**8**	2	"	"	"	"	"	"	
m,p-xylene	**22**	4	"	"	"	"	"	"	
o-xylene	**8**	2	"	"	"	"	"	"	
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*122 %*	*83-121*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project:	Buffalo Forge - Solids	
2749 Lockport Road	Project Number:	Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager:	Jeff Shirley	02/21/07 16:46

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
chloromethane	ND	10	ug/kg dry	1	AB71414	02/14/07	02/14/07	8260	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	**100**	10	"	"	"	"	"	"	
carbon disulfide	**4**	2	"	"	"	"	"	"	
methylene chloride	**56**	2	"	"	"	"	"	"	B
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
vinyl acetate	ND	10	"	"	"	"	"	"	U
2-butanone	**23**	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	**19**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	**44**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
2-hexanone	ND	10	"	"	"	"	"	"	U
tetrachloroethene	**3**	2	"	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
ethylbenzene	**15**	2	"	"	"	"	"	"	
m,p-xylene	**31**	4	"	"	"	"	"	"	
o-xylene	**12**	2	"	"	"	"	"	"	
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*99.7 %*	*70-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.7 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*124 %*	*83-121*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North (7B13008-03) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
chloromethane	ND	10	ug/kg dry	1	AB71414	02/14/07	02/14/07	8260	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	**65**	10	"	"	"	"	"	"	
carbon disulfide	**4**	2	"	"	"	"	"	"	
methylene chloride	**25**	2	"	"	"	"	"	"	B
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
vinyl acetate	ND	10	"	"	"	"	"	"	U
2-butanone	**16**	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	**7**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	**11**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
2-hexanone	ND	10	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
ethylbenzene	**3**	2	"	"	"	"	"	"	
m,p-xylene	**10**	4	"	"	"	"	"	"	
o-xylene	**3**	2	"	"	"	"	"	"	
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*98.7 %*	*70-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*107 %*	*83-121*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South (7B13008-04) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
chloromethane	ND	10	ug/kg dry	1	AB71414	02/14/07	02/14/07	8260	U
vinyl chloride	ND	10	"	"	"	"	"	"	U
bromomethane	ND	10	"	"	"	"	"	"	U
chloroethane	ND	10	"	"	"	"	"	"	U
1,1-dichloroethene	ND	2	"	"	"	"	"	"	U
acetone	**209**	10	"	"	"	"	"	"	
carbon disulfide	**5**	2	"	"	"	"	"	"	
methylene chloride	**40**	2	"	"	"	"	"	"	B
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
1,1-dichloroethane	ND	2	"	"	"	"	"	"	U
vinyl acetate	ND	10	"	"	"	"	"	"	U
2-butanone	**42**	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	U
chloroform	ND	2	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	U
carbon tetrachloride	ND	2	"	"	"	"	"	"	U
benzene	**13**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	U
trichloroethene	ND	2	"	"	"	"	"	"	U
1,2-dichloropropane	ND	2	"	"	"	"	"	"	U
bromodichloromethane	ND	2	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
toluene	**30**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	U
2-hexanone	ND	10	"	"	"	"	"	"	U
tetrachloroethene	ND	2	"	"	"	"	"	"	U
dibromochloromethane	ND	2	"	"	"	"	"	"	U
chlorobenzene	ND	2	"	"	"	"	"	"	U
ethylbenzene	**8**	2	"	"	"	"	"	"	
m,p-xylene	**25**	4	"	"	"	"	"	"	
o-xylene	**9**	2	"	"	"	"	"	"	
styrene	ND	2	"	"	"	"	"	"	U
bromoform	ND	2	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*98.0 %*	*70-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*69-132*		"	"	"	"	
Surrogate: Toluene-d8		*99.0 %*	*81-121*		"	"	"	"	
Surrogate: Bromofluorobenzene		*125 %*	*83-121*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Volatile Organic Compounds by EPA Method 8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water (7B13008-06) Water Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Methyl tert-butyl ether	ND	1	ug/l	1	AB71510	02/15/07	02/15/07	8260	U
benzene	ND	1	"	"	"	"	"	"	U
toluene	ND	1	"	"	"	"	"	"	U
ethylbenzene	ND	1	"	"	"	"	"	"	U
m,p-xylene	ND	2	"	"	"	"	"	"	U
o-xylene	ND	1	"	"	"	"	"	"	U
isopropylbenzene	ND	1	"	"	"	"	"	"	U
n-propylbenzene	ND	1	"	"	"	"	"	"	U
1,3,5-trimethylbenzene	ND	1	"	"	"	"	"	"	U
tert-butylbenzene	ND	1	"	"	"	"	"	"	U
1,2,4-trimethylbenzene	**2**	1	"	"	"	"	"	"	
sec-butylbenzene	ND	1	"	"	"	"	"	"	U
p-isopropyltoluene	ND	1	"	"	"	"	"	"	U
n-butylbenzene	ND	1	"	"	"	"	"	"	U
naphthalene	**3**	1	"	"	"	"	"	"	B
Surrogate: Dibromofluoromethane		*95.3 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*74-117*		"	"	"	"	
Surrogate: Toluene-d8		*98.7 %*	*82-123*		"	"	"	"	
Surrogate: Bromofluorobenzene		*97.3 %*	*85-123*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East (7B13008-01) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	**189**	67	"	"	"	"	"	"	
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	**161**	67	"	"	"	"	"	"	
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	**499**	67	"	"	"	"	"	"	
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	**245**	67	"	"	"	"	"	"	
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	**495**	67	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	**429**	67	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East (7B13008-01) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Diethyl phthalate	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	**7330**	335	"	5	"	"	"	"	D
anthracene	**1890**	67	"	1	"	"	"	"	
carbazole	**360**	67	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	**7770**	335	"	5	"	"	"	"	D
3,3'-Dichlorobenzidine	ND	67	"	1	"	"	"	"	U
pyrene	**9220**	335	"	5	"	"	"	"	D
Butyl benzyl phthalate	**158**	67	"	1	"	"	"	"	
Benzo (a) anthracene	**5040**	67	"	"	"	"	"	"	
chrysene	**3880**	67	"	"	"	"	"	"	
bis(2-ethylhexyl)phthalate	**426**	67	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**4870**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	**1800**	67	"	"	"	"	"	"	
Benzo (a) pyrene	**3520**	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**908**	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**544**	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	**665**	67	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*83.1 %*	*40-103*		"	"	"	"	
Surrogate: Phenol-d6		*85.3 %*	*43-108*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*89.2 %*	*50-98*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*92.8 %*	*49-98*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*96.8 %*	*52-112*		"	"	"	"	
Surrogate: Terphenyl-d14		*180 %*	*43-108*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services	Project:	Buffalo Forge - Solids	
2749 Lockport Road	Project Number:	Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager:	Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Diethyl phthalate	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	**149**	67	"	"	"	"	"	"	
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	**293**	67	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	**329**	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	**184**	67	"	"	"	"	"	"	
chrysene	**161**	67	"	"	"	"	"	"	
bis(2-ethylhexyl)phthalate	**413**	67	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**299**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	**140**	67	"	"	"	"	"	"	
Benzo (a) pyrene	**184**	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*84.6 %*	*40-103*		"	"	"	"	
Surrogate: Phenol-d6		*87.4 %*	*43-108*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*90.1 %*	*50-98*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*94.2 %*	*49-98*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*99.8 %*	*52-112*		"	"	"	"	
Surrogate: Terphenyl-d14		*135 %*	*43-108*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North (7B13008-03) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	**114**	67	"	"	"	"	"	"	
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	**95**	67	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	**126**	67	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North (7B13008-03) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Diethyl phthalate	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	**1150**	67	"	"	"	"	"	"	
anthracene	**254**	67	"	"	"	"	"	"	
carbazole	**116**	67	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	**1500**	67	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	**1660**	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	**820**	67	"	"	"	"	"	"	
chrysene	**810**	67	"	"	"	"	"	"	
bis(2-ethylhexyl)phthalate	**155**	67	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**1270**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	**411**	67	"	"	"	"	"	"	
Benzo (a) pyrene	**808**	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**283**	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**112**	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	**291**	67	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*83.7 %*	*40-103*		"	"	"	"	
Surrogate: Phenol-d6		*87.4 %*	*43-108*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*88.2 %*	*50-98*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*94.9 %*	*49-98*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*99.3 %*	*52-112*		"	"	"	"	
Surrogate: Terphenyl-d14		*137 %*	*43-108*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South (7B13008-04) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
N-Nitrosodimethylamine	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	U
phenol	ND	130	"	"	"	"	"	"	U
2-chlorophenol	ND	130	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	U
benzyl alcohol	ND	67	"	"	"	"	"	"	U
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	U
2-methylphenol	ND	67	"	"	"	"	"	"	U
hexachloroethane	ND	67	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	U
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	U
nitrobenzene	ND	67	"	"	"	"	"	"	U
isophorone	ND	67	"	"	"	"	"	"	U
2-nitrophenol	ND	130	"	"	"	"	"	"	U
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	U
benzoic acid	ND	330	"	"	"	"	"	"	U
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	U
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	U
naphthalene	ND	67	"	"	"	"	"	"	U
4-chloroaniline	ND	67	"	"	"	"	"	"	U
hexachlorobutadiene	ND	67	"	"	"	"	"	"	U
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	U
2-methylnaphthalene	ND	67	"	"	"	"	"	"	U
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	U
2-chloronaphthalene	ND	67	"	"	"	"	"	"	U
2-nitroaniline	ND	67	"	"	"	"	"	"	U
acenaphthylene	ND	67	"	"	"	"	"	"	U
Dimethyl phthalate	ND	67	"	"	"	"	"	"	U
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	U
acenaphthene	ND	67	"	"	"	"	"	"	U
3-nitroaniline	ND	67	"	"	"	"	"	"	U
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	U
dibenzofuran	ND	67	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	U
4-nitrophenol	ND	130	"	"	"	"	"	"	U
fluorene	ND	67	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	U

Sevenson Environmental Services 2749 Lockport Road Niagara Falls NY, 14302	Project: Buffalo Forge - Solids Project Number: Buffalo Forge E916 Project Manager: Jeff Shirley	**Reported:** 02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South (7B13008-04) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Diethyl phthalate	ND	67	ug/kg dry	1	AB71701	02/17/07	02/18/07	8270	U
4-nitroaniline	ND	67	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	U
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	U
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	U
hexachlorobenzene	ND	67	"	"	"	"	"	"	U
pentachlorophenol	ND	130	"	"	"	"	"	"	U
phenanthrene	ND	67	"	"	"	"	"	"	U
anthracene	ND	67	"	"	"	"	"	"	U
carbazole	ND	67	"	"	"	"	"	"	U
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	U
benzidine	ND	330	"	"	"	"	"	"	U
fluoranthene	ND	67	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	U
pyrene	**110**	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	U
chrysene	ND	67	"	"	"	"	"	"	U
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"	U
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	U
Benzo (b) fluoranthene	**130**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*85.3 %*	*40-103*		"	"	"	"	
Surrogate: Phenol-d6		*87.3 %*	*43-108*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*88.2 %*	*50-98*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*93.0 %*	*49-98*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*97.4 %*	*52-112*		"	"	"	"	
Surrogate: Terphenyl-d14		*150 %*	*43-108*		"	"	"	"	*G*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Semivolatile Organic Compounds by EPA Method 8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water (7B13008-06) Water Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
naphthalene	ND	2	ug/l	1	AB71901	02/19/07	02/19/07	8270	U
Acenaphthylene	ND	2	"	"	"	"	"	"	U
acenaphthene	ND	2	"	"	"	"	"	"	U
fluorene	ND	2	"	"	"	"	"	"	U
phenanthrene	**7**	2	"	"	"	"	"	"	
anthracene	ND	2	"	"	"	"	"	"	U
fluoranthene	**7**	2	"	"	"	"	"	"	
pyrene	**8**	2	"	"	"	"	"	"	
Benzo (a) anthracene	**4**	2	"	"	"	"	"	"	
chrysene	**5**	2	"	"	"	"	"	"	
Benzo (b) fluoranthene	**5**	2	"	"	"	"	"	"	
Benzo (k) fluoranthene	**6**	2	"	"	"	"	"	"	
Benzo (a) pyrene	**4**	2	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	2	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	2	"	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND	2	"	"	"	"	"	"	U
Surrogate: Nitrobenzene-d5		*25.5 %*	*46-98*		"	"	"	"	*S-04*
Surrogate: 2-Fluorobiphenyl		*18.6 %*	*48-105*		"	"	"	"	*S-04*
Surrogate: Terphenyl-d14		*24.6 %*	*50-120*		"	"	"	"	*S-04*

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
vinyl chloride	ND	10	ug/l	1	AB71703	02/17/07	02/17/07	8260-TCLP	U
1,1-dichloroethene	ND	10	"	"	"	"	"	"	U
2-butanone	ND	100	"	"	"	"	"	"	U
chloroform	ND	10	"	"	"	"	"	"	U
carbon tetrachloride	ND	10	"	"	"	"	"	"	U
benzene	ND	10	"	"	"	"	"	"	U
1,2-dichloroethane	ND	10	"	"	"	"	"	"	U
trichloroethene	ND	10	"	"	"	"	"	"	U
tetrachloroethene	ND	10	"	"	"	"	"	"	U
chlorobenzene	ND	10	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*94.3 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*66-128*		"	"	"	"	
Surrogate: Toluene-d8		*96.7 %*	*81-118*		"	"	"	"	
Surrogate: Bromofluorobenzene		*106 %*	*85-123*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

TCLP Pesticides by EPA Method 1311/8081A

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Gamma-BHC (Lindane)	ND	0.040	ug/l	1	AB71514	02/15/07	02/20/07	EPA 8081A	U
Heptachlor	ND	0.040	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.040	"	"	"	"	"	"	U
Endrin	ND	0.040	"	"	"	"	"	"	U
Methoxychlor	ND	0.040	"	"	"	"	"	"	U
Chlordane	ND	0.800	"	"	"	"	"	"	U
Toxaphene	ND	0.040	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*106 %*		*55-135*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*97.5 %*		*58-130*	"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

TCLP Herbicides by EPA Method 1311/8151A

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
2,4-D	ND	20.0	ug/l	50	AB71522	02/15/07	02/21/07	8151	U
2,4,5-TP (Silvex)	ND	20.0	"	"	"	"	"	"	U
Surrogate: 2,4-DCPAA		*78.5 %*	*24-146*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

TCLP Semivolatile Organic Compounds by EPA Method 1311/8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
pyridine	ND	8	ug/l	1	AB71606	02/16/07	02/17/07	8270C-TCLP	U
1,4-dichlorobenzene	ND	8	"	"	"	"	"	"	U
Total cresols (o,m & p)	ND	24	"	"	"	"	"	"	U
hexachloroethane	ND	8	"	"	"	"	"	"	U
nitrobenzene	ND	8	"	"	"	"	"	"	U
hexachlorobutadiene	ND	8	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	16	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	8	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	8	"	"	"	"	"	"	U
hexachlorobenzene	ND	8	"	"	"	"	"	"	U
pentachlorophenol	ND	16	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*26.5 %*		*14-53*	"	"	"	"	
Surrogate: Phenol-d6		*17.1 %*		*10-35*	"	"	"	"	
Surrogate: Nitrobenzene-d5		*79.8 %*		*38-96*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*85.0 %*		*41-95*	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*60.6 %*		*44-124*	"	"	"	"	
Surrogate: Terphenyl-d14		*112 %*		*42-127*	"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Conventional Chemistry Parameters by EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East (7B13008-01) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Cyanide (total)	ND	0.50	mg/kg dry	1	AB72031	02/19/07	02/20/07	EPA 9014	
% Solids	**75.0**	0.1	%	"	AB71610	02/15/07	02/16/07	% calculation	
West (7B13008-02) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Cyanide (total)	ND	0.50	mg/kg dry	1	AB72031	02/19/07	02/20/07	EPA 9014	
% Solids	**74.5**	0.1	%	"	AB71610	02/15/07	02/16/07	% calculation	
North (7B13008-03) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Cyanide (total)	ND	0.50	mg/kg dry	1	AB72031	02/19/07	02/20/07	EPA 9014	
% Solids	**73.1**	0.1	%	"	AB71610	02/15/07	02/16/07	% calculation	
South (7B13008-04) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Cyanide (total)	ND	0.50	mg/kg dry	1	AB72031	02/19/07	02/20/07	EPA 9014	
% Solids	**74.9**	0.1	%	"	AB71610	02/15/07	02/16/07	% calculation	
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
pH	**8.55**	0.10	pH Units	1	AB71704	02/15/07	02/15/07	EPA 9045C	
% Solids	**96.9**	0.1	%	"	AB71610	02/15/07	02/16/07	% calculation	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	**Reported:**
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	02/21/07 16:46

Physical Parameters by APHA/ASTM/EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (7B13008-05) Soil Sampled: 02/13/07 10:15 Received: 02/13/07 12:05									
Ignitability by Flashpoint	>200		deg F	1	AB71526	02/15/07	02/15/07	EPA 1010	
Reactive Cyanide	ND	40.0	mg/kg	"	AB71427	02/14/07	02/15/07	Section 7.3.3.2	U
Reactive Sulfide	**48.1**	40.0	"	"	AB71426	02/14/07	02/15/07	Section 7.3.4.2	

Notes and Definitions

U	Analyte included in the analysis, but not detected
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
G	G denotes analyte recovery is greater than the upper quality control limit.
D	This flag assigned to compounds identified in an analysis at a secondary dilution factor.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Results for 7A23008-01 Search Help Work Order Log Out < 01 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge
Project Number: Buffalo Forge E916 UST & BLD 12 capacitor
Project Manager: Jeff Shirley

Reported:
01/26/07 09:16

UST BLDG 10 North
7A23008-01 (Soil)
Waste Stream Technology Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
naphthalene	ND	67	ug/kg (dry)	1	AA72410	01/24/07	01/24/07	8270	
anthracene	ND	67	"	"	"	"	"	"	
acenaphthene	ND	67	"	"	"	"	"	"	
Acenaphthylene	ND	67	"	"	"	"	"	"	
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	
chrysene	ND	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	
fluoranthene	ND	67	"	"	"	"	"	"	
fluorene	ND	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	
phenanthrene	ND	67	"	"	"	"	"	"	
pyrene	ND	67	"	"	"	"	"	"	
Nitrobenzene-d5 [surr]	*68.9%*	(50 - 98)		"	"	"	"	"	
2-Fluorobiphenyl [surr]	*68.5%*	(49 - 98)		"	"	"	"	"	
Terphenyl-d14 [surr]	*86.1%*	(43 - 108)		"	"	"	"	"	

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
% Solids	**65.7**	0.1	%	1	AA72502	01/24/07	01/25/07	% calculation	

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Results for 7A23008-02 Search Help Work Order Log Out < 02 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge
Project Number: Buffalo Forge E916 UST & BLD 12 capacitor
Project Manager: Jeff Shirley

Reported:
01/26/07 09:18

UST BLDG 10 South
7A23008-02 (Soil)
Waste Stream Technology Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
naphthalene	ND	67	ug/kg (dry)	1	AA72410	01/24/07	01/24/07	8270	
anthracene	ND	67	"	"	"	"	"	"	
acenaphthene	ND	67	"	"	"	"	"	"	
Acenaphthylene	ND	67	"	"	"	"	"	"	
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	
chrysene	ND	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	
fluoranthene	ND	67	"	"	"	"	"	"	
fluorene	ND	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	
phenanthrene	ND	67	"	"	"	"	"	"	
pyrene	ND	67	"	"	"	"	"	"	
Nitrobenzene-d5 [surr]	*73.3%*	(50 - 98)		"	"	"	"	"	
2-Fluorobiphenyl [surr]	*73.7%*	(49 - 98)		"	"	"	"	"	
Terphenyl-d14 [surr]	*84.9%*	(43 - 108)		"	"	"	"	"	

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
% Solids	**70.5**	0.1	%	1	AA72502	01/24/07	01/25/07	% calculation	

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UST Sample Results

SEVENSON ENVIRONMENTAL SERVICES, INC.

2749 Lockport Road
Niagara Falls, NY 14305
Telephone: (716) 284-0431
Telefax: (716) 285-4201

Telefax Transmittal

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~~FAX NUMBER~~	VIA EMAIL
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PAGES	(Including Cover Page)

MESSAGE:

BOB,

RESULTS ATTACHED FOR:

① POST-X SAMPLES (NORTH, SOUTH EAST, WEST WALLS AND BOTTOM)

② SOIL STOCKPILE CHARACTERIZATION

NOTE Hg RESULT FOR NORTH WALL (NW) AND BENZO(A)PYRENE RESULT FOR WEST WALL (WW)

~~TAGM 4046 TABLES ALSO ATTACHED~~

K

Please notify Sevenson IMMEDIATELY if you do not receive all pages as noted. Thank you.

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Results for 6K27013-03 Search WorkOrder Log Out 03 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:25

1" - Above TAGM but below Eastern US BKgd

2" - Above Eastern US BKdg

BF-Bldg10SW-112706
6K27013-03 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	ND	0.014	mg/kg (dry)	1	AK62920	11/29/06	11/29/06	EPA 7471A	
Silver	ND	2.50	"	5	AK62816	11/28/06	"	EPA 6010B	
Aluminum	**7850**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	
Barium	**78.3**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**72100**	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**7.56**	5.00	"	"	"	"	"	"	
Chromium	**11.8**	5.00	"	"	"	"	"	"	
Copper	**17.1**	5.00	"	"	"	"	"	"	
Iron	**15500**	41.5	"	"	"	"	"	"	
Magnesium	**26900**	60.0	"	"	"	"	"	"	
Manganese	**463**	5.00	"	"	"	"	"	"	
Nickel	**18.7**	5.00	"	"	"	"	"	"	
Lead	ND	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**14.6**	5.00	"	"	"	"	"	"	
Zinc	**60.4**	20.0	"	"	"	"	"	"	
Potassium	**1140**	14.0	"	1	AK62817	"	"	"	
Sodium	**246**	45.0	"	"	"	"	"	"	

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Alpha-BHC	ND	0.400	ug/kg (dry)	1	AL60117	12/01/06	12/02/06	8081A/8082	
Beta-BHC	ND	0.400	"	"	"	"	"	"	
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	
Delta-BHC	ND	0.400	"	"	"	"	"	"	
Heptachlor	ND	0.400	"	"	"	"	"	"	
Aldrin	ND	0.400	"	"	"	"	"	"	

Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"
Endosulfan I	ND	0.400	"	"	"	"	"	"
Dieldrin	ND	0.400	"	"	"	"	"	"
4,4'-DDE	ND	0.400	"	"	"	"	"	"
Endrin	ND	0.400	"	"	"	"	"	"
Endosulfan II	ND	0.400	"	"	"	"	"	"
4,4'-DDD	ND	0.400	"	"	"	"	"	"
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"
4,4'-DDT	ND	0.400	"	"	"	"	"	"
Endrin Ketone	ND	0.400	"	"	"	"	"	"
Methoxychlor	ND	0.400	"	"	"	"	"	"
Chlordane	ND	6.70	"	"	"	"	"	"
Toxaphene	ND	8.30	"	"	"	"	"	"
Aroclor 1016	ND	3.30	"	"	"	"	"	"
Aroclor 1221	ND	3.30	"	"	"	"	"	"
Aroclor 1232	ND	3.30	"	"	"	"	"	"
Aroclor 1242	ND	3.30	"	"	"	"	"	"
Aroclor 1248	ND	3.30	"	"	"	"	"	"
Aroclor 1254	ND	3.30	"	"	"	"	"	"
Aroclor 1260	ND	3.30	"	"	"	"	"	"
Tetrachloro-meta-xylene [surr]	*92.5%*	(61 - 140)		"	"	"	"	"
Decachlorobiphenyl [surr]	*90.0%*	(56 - 136)		"	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AL60116	12/01/06	12/01/06	8270	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	
nitrobenzene	ND	67	"	"	"	"	"	"	
isophorone	ND	67	"	"	"	"	"	"	
2-nitrophenol	ND	130	"	"	"	"	"	"	
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	
benzoic acid	ND	330	"	"	"	"	"	"	
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	
naphthalene	ND	67	"	"	"	"	"	"	
4-chloroaniline	ND	67	"	"	"	"	"	"	

hexachlorobutadiene	ND	67	"	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"	"
phenanthrene	ND	67	"	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"	"
fluoranthene	ND	67	"	"	"	"	"	"
pyrene	ND	67	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"	"
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"
Benzo (a) pyrene	ND	67	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"

2-Fluorophenol [surr]	*53.9%*	(40 - 103)	"	"	"	"	"
Phenol-d6 [surr]	*57.2%*	(43 - 108)	"	"	"	"	"
Nitrobenzene-d5 [surr]	*55.5%*	(50 - 98)	"	"	"	"	"
2-Fluorobiphenyl [surr]	*56.5%*	(49 - 98)	"	"	"	"	"
2,4,6-Tribromophenol [surr]	*61.2%*	(52 - 112)	"	"	"	"	"
Terphenyl-d14 [surr]	*69.0%*	(43 - 108)	"	"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Cyanide (total)	ND	0.50	mg/kg (dry)	1	AL60427	12/04/06	12/04/06	EPA 9014	
% Solids	**83.0**	0.1	%	"	AK62906	11/28/06	11/29/06	% calculation	

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Results for 6K27013-03RE1

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:27

BF-Bldg10SW-112706
6K27013-03RE1 (Soil)
Waste Stream Technology Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
chloromethane	ND	10	ug/kg (dry)	1	AK63004	11/30/06	11/30/06	8260	
vinyl chloride	ND	10	"	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	
methylene chloride	ND	2	"	"	"	"	"	"	
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
1,1-dichloroethane	ND	2	"	"	"	"	"	"	
vinyl acetate	ND	10	"	"	"	"	"	"	
2-butanone	ND	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
chloroform	ND	2	"	"	"	"	"	"	
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	
carbon tetrachloride	ND	2	"	"	"	"	"	"	
benzene	**6**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	
trichloroethene	ND	2	"	"	"	"	"	"	
1,2-dichloropropane	ND	2	"	"	"	"	"	"	
bromodichloromethane	ND	2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
toluene	**12**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	
2-hexanone	ND	10	"	"	"	"	"	"	
tetrachloroethene	ND	2	"	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	"	
chlorobenzene	ND	2	"	"	"	"	"	"	
ethylbenzene	ND	2	"	"	"	"	"	"	
m,p-xylene	**12**	4	"	"	"	"	"	"	
o-xylene	**4**	2	"	"	"	"	"	"	

styrene	ND	2	"	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"
Dibromofluoromethane [surr]	*96.7%*	(70 - 130)		"	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*95.3%*	(69 - 132)		"	"	"	"	"
Toluene-d8 [surr]	*96.3%*	(81 - 121)		"	"	"	"	"
Bromofluorobenzene [surr]	*97.7%*	(83 - 121)		"	"	"	"	"

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Results for 6K27013-04

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:28

"1" – Above TAGM but below Eastern US Bkgd.

"2" – Above Eastern US Bkgd

BF-Bldg10WW-112706
6K27013-04 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	**0.059**	0.014	mg/kg (dry)	1	AK62920	11/29/06	11/29/06	EPA 7471A	
Silver	ND	2.50	"	5	AK62816	11/28/06	"	EPA 6010B	
Aluminum	**7550**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	
Barium	**74.4**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**63900** 2	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**5.87**	5.00	"	"	"	"	"	"	
Chromium	**11.3** 1	5.00	"	"	"	"	"	"	
Copper	**27.0** 1	5.00	"	"	"	"	"	"	
Iron	**13100** 1	41.5	"	"	"	"	"	"	
Magnesium	**18700** 2	60.0	"	"	"	"	"	"	
Manganese	**339**	5.00	"	"	"	"	"	"	
Nickel	**14.4** 1	5.00	"	"	"	"	"	"	
Lead	**38.6**	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**14.0**	5.00	"	"	"	"	"	"	
Zinc	**76.9** 2	20.0	"	"	"	"	"	"	
Potassium	**1470**	14.0	"	1	AK62817	"	"	"	
Sodium	**154**	45.0	"	"	"	"	"	"	

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Alpha-BHC	ND	4.00	ug/kg (dry)	10	AL60117	12/01/06	12/02/06	8081A/8082	
Beta-BHC	ND	4.00	"	"	"	"	"	"	
Gamma-BHC (Lindane)	ND	4.00	"	"	"	"	"	"	
Delta-BHC	ND	4.00	"	"	"	"	"	"	
Heptachlor	ND	4.00	"	"	"	"	"	"	
Aldrin	ND	4.00	"	"	"	"	"	"	

Heptachlor Epoxide	ND	4.00	"	"	"	"	"	"
Endosulfan I	ND	4.00	"	"	"	"	"	"
Dieldrin	ND	4.00	"	"	"	"	"	"
4,4'-DDE	ND	4.00	"	"	"	"	"	"
Endrin	ND	4.00	"	"	"	"	"	"
Endosulfan II	ND	4.00	"	"	"	"	"	"
4,4'-DDD	ND	4.00	"	"	"	"	"	"
Endrin Aldehyde	ND	4.00	"	"	"	"	"	"
Endosulfan Sulfate	ND	4.00	"	"	"	"	"	"
4,4'-DDT	ND	4.00	"	"	"	"	"	"
Endrin Ketone	ND	4.00	"	"	"	"	"	"
Methoxychlor	ND	4.00	"	"	"	"	"	"
Chlordane	ND	67.0	"	"	"	"	"	"
Toxaphene	ND	83.0	"	"	"	"	"	"
Aroclor 1016	ND	33.0	"	"	"	"	"	"
Aroclor 1221	ND	33.0	"	"	"	"	"	"
Aroclor 1232	ND	33.0	"	"	"	"	"	"
Aroclor 1242	ND	33.0	"	"	"	"	"	"
Aroclor 1248	ND	33.0	"	"	"	"	"	"
Aroclor 1254	ND	33.0	"	"	"	"	"	"
Aroclor 1260	ND	33.0	"	"	"	"	"	"
Tetrachloro-meta-xylene [surr]	*95.1%*	(61 - 140)		"	"	"	"	"
Decachlorobiphenyl [surr]	*122%*	(56 - 136)		"	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AL60116	12/01/06	12/04/06	8270	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	
nitrobenzene	ND	67	"	"	"	"	"	"	
isophorone	ND	67	"	"	"	"	"	"	
2-nitrophenol	ND	130	"	"	"	"	"	"	
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	
benzoic acid	ND	330	"	"	"	"	"	"	
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	
naphthalene	ND	67	"	"	"	"	"	"	
4-chloroaniline	ND	67	"	"	"	"	"	"	

hexachlorobutadiene	ND	67	"	"	"	"	"	"	
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	
2-methylnaphthalene	ND	67	"	"	"	"	"	"	
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	
2-chloronaphthalene	ND	67	"	"	"	"	"	"	
2-nitroaniline	ND	67	"	"	"	"	"	"	
acenaphthylene	ND	67	"	"	"	"	"	"	
Dimethyl phthalate	ND	67	"	"	"	"	"	"	
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	
acenaphthene	ND	67	"	"	"	"	"	"	
3-nitroaniline	ND	67	"	"	"	"	"	"	
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	
dibenzofuran	ND	67	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	
4-nitrophenol	ND	130	"	"	"	"	"	"	
fluorene	ND	67	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	
Diethyl phthalate	ND	67	"	"	"	"	"	"	
4-nitroaniline	ND	67	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	
hexachlorobenzene	ND	67	"	"	"	"	"	"	
pentachlorophenol	ND	130	"	"	"	"	"	"	
phenanthrene	**321**	67	"	"	"	"	"	"	
anthracene	**94**	67	"	"	"	"	"	"	
carbazole	ND	67	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	
benzidine	ND	330	"	"	"	"	"	"	
fluoranthene	**390**	67	"	"	"	"	"	"	
pyrene	**341**	67	"	"	"	"	"	"	
3,3´-Dichlorobenzidine	ND	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	
Benzo (a) anthracene	**205**	67	"	"	"	"	"	"	
chrysene	**174**	67	"	"	"	"	"	"	
bis(2-ethylhexyl)phthalate	**106**	67	"	"	"	"	"	"	B
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	
Benzo (b) fluoranthene	**201**	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (a) pyrene	**161** (0.061)	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**101**	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	**114**	67	"	"	"	"	"	"	

2-Fluorophenol [surr]	*59.2%*	(40 - 103)	"	"	"	"	"
Phenol-d6 [surr]	*63.1%*	(43 - 108)	"	"	"	"	"
Nitrobenzene-d5 [surr]	*58.1%*	(50 - 98)	"	"	"	"	"
2-Fluorobiphenyl [surr]	*60.3%*	(49 - 98)	"	"	"	"	"
2,4,6-Tribromophenol [surr]	*67.3%*	(52 - 112)	"	"	"	"	"
Terphenyl-d14 [surr]	*70.1%*	(43 - 108)	"	"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Cyanide (total)	ND	0 50	mg/kg (dry)	1	AL60427	12/04/06	12/04/06	EPA 9014	
% Solids	**79.3**	0.1	%	"	AK62906	11/28/06	11/29/06	% calculation	

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302 Grote St
Buffalo, NY 14207
Ph:716 876.5290
Fx:716 876 2412
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Results for 6K27013-04RE1

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:28

BF-Bldg10WW-112706
6K27013-04RE1 (Soil)
Waste Stream Technology Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
chloromethane	ND	10	ug/kg (dry)	1	AK63004	11/30/06	11/30/06	8260	
vinyl chloride	ND	10	"	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	
methylene chloride	ND	2	"	"	"	"	"	"	
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
1,1-dichloroethane	ND	2	"	"	"	"	"	"	
vinyl acetate	ND	10	"	"	"	"	"	"	
2-butanone	ND	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
chloroform	ND	2	"	"	"	"	"	"	
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	
carbon tetrachloride	ND	2	"	"	"	"	"	"	
benzene	**6**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	
trichloroethene	ND	2	"	"	"	"	"	"	
1,2-dichloropropane	ND	2	"	"	"	"	"	"	
bromodichloromethane	ND	2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
toluene	**12**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	
2-hexanone	ND	10	"	"	"	"	"	"	
tetrachloroethene	ND	2	"	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	"	
chlorobenzene	ND	2	"	"	"	"	"	"	
ethylbenzene	ND	2	"	"	"	"	"	"	
m,p-xylene	**11**	4	"	"	"	"	"	"	
o-xylene	**3**	2	"	"	"	"	"	"	

styrene	ND	2	"	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"
Dibromofluoromethane [surr]	*96.0%*	(70 - 130)		"	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*96.0%*	(69 - 132)		"	"	"	"	"
Toluene-d8 [surr]	*96.7%*	(81 - 121)		"	"	"	"	"
Bromofluorobenzene [surr]	*105%*	(83 - 121)		"	"	"	"	"

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302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716 876 2412
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Results for 6K27013-01 Search WebOrder Log Out 01 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:23

'1" - ABOVE TAGM but below EASTERN US Bkgd
'2" - ABOVE US EASTERN Bkgd
'*" - ABOVE TAGM

BF-Bldg10NW-112706
6K27013-01 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	**0.780** * (0.1)	0.014	mg/kg (dry)	1	AK62920	11/29/06	11/29/06	EPA 7471A	
Silver	ND	2.50	"	5	AK62816	11/28/06	"	EPA 6010B	
Aluminum	**9370**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	
Barium	**84.0**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**54700** 2	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**6.75**	5.00	"	"	"	"	"	"	
Chromium	**13.5** 1	5.00	"	"	"	"	"	"	
Copper	**27.8** 1	5.00	"	"	"	"	"	"	
Iron	**16000** 1	41.5	"	"	"	"	"	"	
Magnesium	**16800** 2	60.0	"	"	"	"	"	"	
Manganese	**428**	5.00	"	"	"	"	"	"	
Nickel	**16.8** 1	5.00	"	"	"	"	"	"	
Lead	**46.7**	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**17.1**	5.00	"	"	"	"	"	"	
Zinc	**73.6** 2	20.0	"	"	"	"	"	"	
Potassium	**1430**	14.0	"	1	AK62817	"	"	"	
Sodium	**206**	45.0	"	"	"	"	"	"	

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Alpha-BHC	ND	4.00	ug/kg (dry)	10	AL60117	12/01/06	12/01/06	8081A/8082	
Beta-BHC	ND	4.00	"	"	"	"	"	"	
Gamma-BHC (Lindane)	ND	4.00	"	"	"	"	"	"	
Delta-BHC	ND	4.00	"	"	"	"	"	"	
Heptachlor	ND	4.00	"	"	"	"	"	"	
Aldrin	ND	4.00	"	"	"	"	"	"	

Heptachlor Epoxide	ND	4.00	"	"	"	"	"	"	
Endosulfan I	ND	4.00	"	"	"	"	"	"	
Dieldrin	ND	4.00	"	"	"	"	"	"	
4,4'-DDE	ND	4.00	"	"	"	"	"	"	
Endrin	ND	4.00	"	"	"	"	"	"	
Endosulfan II	ND	4.00	"	"	"	"	"	"	
4,4'-DDD	ND	4.00	"	"	"	"	"	"	
Endrin Aldehyde	ND	4.00	"	"	"	"	"	"	
Endosulfan Sulfate	ND	4.00	"	"	"	"	"	"	
4,4'-DDT	ND	4.00	"	"	"	"	"	"	
Endrin Ketone	ND	4.00	"	"	"	"	"	"	
Methoxychlor	ND	4.00	"	"	"	"	"	"	
Chlordane	ND	67.0	"	"	"	"	"	"	
Toxaphene	ND	83.0	"	"	"	"	"	"	
Aroclor 1016	ND	33.0	"	"	"	"	"	"	
Aroclor 1221	ND	33.0	"	"	"	"	"	"	
Aroclor 1232	ND	33.0	"	"	"	"	"	"	
Aroclor 1242	ND	33.0	"	"	"	"	"	"	
Aroclor 1248	ND	33.0	"	"	"	"	"	"	
Aroclor 1254	ND	33.0	"	"	"	"	"	"	
Aroclor 1260	ND	33.0	"	"	"	"	"	"	
Tetrachloro-meta-xylene [surr]	*89.0%*	(61 - 140)		"	"	"	"	"	
Decachlorobiphenyl [surr]	*104%*	(56 - 136)		"	"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AL60116	12/01/06	12/01/06	8270	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	
nitrobenzene	ND	67	"	"	"	"	"	"	
isophorone	ND	67	"	"	"	"	"	"	
2-nitrophenol	ND	130	"	"	"	"	"	"	
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	
benzoic acid	ND	330	"	"	"	"	"	"	
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	
naphthalene	ND	67	"	"	"	"	"	"	
4-chloroaniline	ND	67	"	"	"	"	"	"	

hexachlorobutadiene	ND	67	"	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"	"
phenanthrene	ND	67	"	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"	"
fluoranthene	**80**	67	"	"	"	"	"	"
pyrene	ND	67	"	"	"	"	"	"
3,3´-Dichlorobenzidine	ND	67	"	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"	"
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"
Benzo (b) fluoranthene	**146**	67	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"
Benzo (a) pyrene	**89**	67	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**87**	67	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"
Benzo (g,h,i) perylene	**113**	67	"	"	"	"	"	"
2-Fluorophenol [surr]	*50.4%*	(40 - 103)		"	"	"	"	"
Phenol-d6 [surr]	*54.0%*	(43 - 108)		"	"	"	"	"
Nitrobenzene-d5 [surr]	*51.9%*	(50 - 98)		"	"	"	"	"
2-Fluorobiphenyl [surr]	*53.1%*	(49 - 98)		"	"	"	"	"
2,4,6-Tribromophenol [surr]	*65.9%*	(52 - 112)		"	"	"	"	"
Terphenyl-d14 [surr]	*68.8%*	(43 - 108)		"	"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Cyanide (total)	ND	0.50	mg/kg (dry)	1	AL60427	12/04/06	12/04/06	EPA 9014	
% Solids	**82.8**	0.1	%	"	AK62906	11/28/06	11/29/06	% calculation	

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Results for 6K27013-01RE1

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:24

BF-Bldg10NW-112706
6K27013-01RE1 (Soil)
Waste Stream Technology Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
chloromethane	ND	10	ug/kg (dry)	1	AK63004	11/30/06	11/30/06	8260	
vinyl chloride	ND	10	"	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	"	
acetone	**15**	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	
methylene chloride	ND	2	"	"	"	"	"	"	
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
1,1-dichloroethane	ND	2	"	"	"	"	"	"	
vinyl acetate	ND	10	"	"	"	"	"	"	
2-butanone	ND	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
chloroform	ND	2	"	"	"	"	"	"	
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	
carbon tetrachloride	ND	2	"	"	"	"	"	"	
benzene	**7**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	
trichloroethene	ND	2	"	"	"	"	"	"	
1,2-dichloropropane	ND	2	"	"	"	"	"	"	
bromodichloromethane	ND	2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
toluene	**30**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	
2-hexanone	ND	10	"	"	"	"	"	"	
tetrachloroethene	ND	2	"	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	"	
chlorobenzene	ND	2	"	"	"	"	"	"	
ethylbenzene	**55**	2	"	"	"	"	"	"	
m,p-xylene	**260**	4	"	"	"	"	"	"	
o-xylene	**160**	2	"	"	"	"	"	"	

styrene	ND	2	"	"	"	"	"	"	
bromoform	ND	2	"	"	"	"	"	"	
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"	
Dibromofluoromethane [surr]	*97.7%*	(70 - 130)		"	"	"	"	"	
1,2-Dichloroethane-d4 [surr]	*95.7%*	(69 - 132)		"	"	"	"	"	
Toluene-d8 [surr]	*104%*	(81 - 121)		"	"	"	"	"	
Bromofluorobenzene [surr]	*397%*	(83 - 121)		"	"	"	"	"	S-04

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Results for 6K27013-02

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:24

1" ABOVE TAGM but below EASTERN US BKgd

2" ABOVE EASTERN US BKgd

BF-Bldg10EW-112706
6K27013-02 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	ND	0.014	mg/kg (dry)	1	AK62920	11/29/06	11/29/06	EPA 7471A	
Silver	ND	2.50	"	5	AK62816	11/28/06	"	EPA 6010B	
Aluminum	**8770**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	
Barium	**86.0**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**66500** 2	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**7.93**	5.00	"	"	"	"	"	"	
Chromium	**14.0** 1	5.00	"	"	"	"	"	"	
Copper	**17.8**	5.00	"	"	"	"	"	"	
Iron	**17000** 1	41.5	"	"	"	"	"	"	
Magnesium	**24000** 2	60.0	"	"	"	"	"	"	
Manganese	**446**	5.00	"	"	"	"	"	"	
Nickel	**20.1** 1	5.00	"	"	"	"	"	"	
Lead	ND	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**16.2**	5.00	"	"	"	"	"	"	
Zinc	**59.4** 2	20.0	"	"	"	"	"	"	
Potassium	**1220**	14.0	"	1	AK62817	"	"	"	
Sodium	**183**	45.0	"	"	"	"	"	"	

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Alpha-BHC	ND	0.400	ug/kg (dry)	1	AL60117	12/01/06	12/01/06	8081A/8082	
Beta-BHC	ND	0.400	"	"	"	"	"	"	
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	
Delta-BHC	ND	0.400	"	"	"	"	"	"	
Heptachlor	ND	0.400	"	"	"	"	"	"	
Aldrin	ND	0.400	"	"	"	"	"	"	

Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"
Endosulfan I	ND	0.400	"	"	"	"	"	"
Dieldrin	ND	0.400	"	"	"	"	"	"
4,4'-DDE	ND	0.400	"	"	"	"	"	"
Endrin	ND	0.400	"	"	"	"	"	"
Endosulfan II	ND	0.400	"	"	"	"	"	"
4,4'-DDD	ND	0.400	"	"	"	"	"	"
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"
4,4'-DDT	ND	0.400	"	"	"	"	"	"
Endrin Ketone	ND	0.400	"	"	"	"	"	"
Methoxychlor	ND	0.400	"	"	"	"	"	"
Chlordane	ND	6.70	"	"	"	"	"	"
Toxaphene	ND	8.30	"	"	"	"	"	"
Aroclor 1016	ND	3.30	"	"	"	"	"	"
Aroclor 1221	ND	3.30	"	"	"	"	"	"
Aroclor 1232	ND	3.30	"	"	"	"	"	"
Aroclor 1242	ND	3.30	"	"	"	"	"	"
Aroclor 1248	ND	3.30	"	"	"	"	"	"
Aroclor 1254	ND	3.30	"	"	"	"	"	"
Aroclor 1260	ND	3.30	"	"	"	"	"	"

Tetrachloro-meta-xylene [surr]	*97.6%*	(61 - 140)		"	"	"	"	"
Decachlorobiphenyl [surr]	*94.7%*	(56 - 136)		"	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AL60116	12/01/06	12/01/06	8270	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	
nitrobenzene	ND	67	"	"	"	"	"	"	
isophorone	ND	67	"	"	"	"	"	"	
2-nitrophenol	ND	130	"	"	"	"	"	"	
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	
benzoic acid	ND	330	"	"	"	"	"	"	
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	
naphthalene	ND	67	"	"	"	"	"	"	
4-chloroaniline	ND	67	"	"	"	"	"	"	

hexachlorobutadiene	ND	67	"	"	"	"	"	"	
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"	
2-methylnaphthalene	ND	67	"	"	"	"	"	"	
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"	
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"	
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"	
2-chloronaphthalene	ND	67	"	"	"	"	"	"	
2-nitroaniline	ND	67	"	"	"	"	"	"	
acenaphthylene	ND	67	"	"	"	"	"	"	
Dimethyl phthalate	ND	67	"	"	"	"	"	"	
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"	
acenaphthene	ND	67	"	"	"	"	"	"	
3-nitroaniline	ND	67	"	"	"	"	"	"	
2,4-dinitrophenol	ND	130	"	"	"	"	"	"	
dibenzofuran	ND	67	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"	
4-nitrophenol	ND	130	"	"	"	"	"	"	
fluorene	ND	67	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"	
Diethyl phthalate	ND	67	"	"	"	"	"	"	
4-nitroaniline	ND	67	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"	
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"	
4-bromophenylphenylether	ND	67	"	"	"	"	"	"	
hexachlorobenzene	ND	67	"	"	"	"	"	"	
pentachlorophenol	ND	130	"	"	"	"	"	"	
phenanthrene	ND	67	"	"	"	"	"	"	
anthracene	ND	67	"	"	"	"	"	"	
carbazole	ND	67	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"	
benzidine	ND	330	"	"	"	"	"	"	
fluoranthene	ND	67	"	"	"	"	"	"	
pyrene	ND	67	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"	
Benzo (a) anthracene	ND	67	"	"	"	"	"	"	
chrysene	ND	67	"	"	"	"	"	"	
bis(2-ethylhexyl)phthalate	**93**	67	"	"	"	"	"	"	B
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"	
Benzo (a) pyrene	ND	67	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"	
2-Fluorophenol [surr]	*52.0%*	(40 - 103)		"	"	"	"	"	
Phenol-d6 [surr]	*56.9%*	(43 - 108)		"	"	"	"	"	
Nitrobenzene-d5 [surr]	*54.9%*	(50 - 98)		"	"	"	"	"	
2-Fluorobiphenyl [surr]	*56.3%*	(49 - 98)		"	"	"	"	"	
2,4,6-Tribromophenol [surr]	*65.5%*	(52 - 112)		"	"	"	"	"	
Terphenyl-d14 [surr]	*69.0%*	(43 - 108)		"	"	"	"	"	

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Cyanide (total)	ND	0.50	mg/kg (dry)	1	AL60427	12/04/06	12/04/06	EPA 9014	
% Solids	**79.2**	0.1	%	"	AK62906	11/28/06	11/29/06	% calculation	

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:24

BF-Bldg10EW-112706
6K27013-02RE1 (Soil)
Waste Stream Technology Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
chloromethane	ND	10	ug/kg (dry)	1	AK63004	11/30/06	11/30/06	8260	
vinyl chloride	ND	10	"	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	
methylene chloride	ND	2	"	"	"	"	"	"	
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
1,1-dichloroethane	ND	2	"	"	"	"	"	"	
vinyl acetate	ND	10	"	"	"	"	"	"	
2-butanone	ND	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
chloroform	ND	2	"	"	"	"	"	"	
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	
carbon tetrachloride	ND	2	"	"	"	"	"	"	
benzene	**7**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	
trichloroethene	ND	2	"	"	"	"	"	"	
1,2-dichloropropane	ND	2	"	"	"	"	"	"	
bromodichloromethane	ND	2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
toluene	**15**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	
2-hexanone	ND	10	"	"	"	"	"	"	
tetrachloroethene	ND	2	"	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	"	
chlorobenzene	ND	2	"	"	"	"	"	"	
ethylbenzene	ND	2	"	"	"	"	"	"	
m,p-xylene	**15**	4	"	"	"	"	"	"	
o-xylene	**4**	2	"	"	"	"	"	"	

styrene	ND	2	"	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"
Dibromofluoromethane [surr]	*88.3%*	(70 - 130)		"	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*92.0%*	(69 - 132)		"	"	"	"	"
Toluene-d8 [surr]	*96.7%*	(81 - 121)		"	"	"	"	"
Bromofluorobenzene [surr]	*105%*	(83 - 121)		"	"	"	"	"

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Results for 6K27013-05

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:28

1"- ABOVE TAGM but below EASTERN US Bkgd
2"- ABOVE US EASTERN Bkgd

BF-Bldg10BTM-112706
6K27013-05 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	**0.024**	0.014	mg/kg (dry)	1	AK62920	11/29/06	11/29/06	EPA 7471A	
Silver	ND	2.50	"	5	AK62915	"	"	EPA 6010B	
Aluminum	**8220**	12.5	"	"	"	"	"	"	
Arsenic	ND	8.50	"	"	"	"	"	"	
Barium	**84.1**	5.00	"	"	"	"	"	"	
Beryllium	ND	2.50	"	"	"	"	"	"	
Calcium	**61500**	12.5	"	"	"	"	"	"	
Cadmium	ND	5.00	"	"	"	"	"	"	
Cobalt	**7.64**	5.00	"	"	"	"	"	"	
Chromium	**12.9**	5.00	"	"	"	"	"	"	
Copper	**15.6**	5.00	"	"	"	"	"	"	
Iron	**16300**	41.5	"	"	"	"	"	"	
Magnesium	**23100**	60.0	"	"	"	"	"	"	
Manganese	**437**	5.00	"	"	"	"	"	"	
Nickel	**18.1**	5.00	"	"	"	"	"	"	
Lead	ND	20.5	"	"	"	"	"	"	
Antimony	ND	7.00	"	"	"	"	"	"	
Selenium	ND	7.00	"	"	"	"	"	"	
Thallium	ND	5.00	"	"	"	"	"	"	
Vanadium	**16.3**	5.00	"	"	"	"	"	"	
Zinc	**62.5**	20.0	"	"	"	"	"	"	
Potassium	**1360**	14.0	"	1	AK62916	"	"	"	
Sodium	**188**	45.0	"	"	"	"	"	"	

Organochlorine Pesticides and PCBs by EPA Methods 8081A /8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Alpha-BHC	ND	0.400	ug/kg (dry)	1	AL60117	12/01/06	12/02/06	8081A/8082	
Beta-BHC	ND	0.400	"	"	"	"	"	"	
Gamma-BHC (Lindane)	ND	0.400	"	"	"	"	"	"	
Delta-BHC	ND	0.400	"	"	"	"	"	"	
Heptachlor	ND	0.400	"	"	"	"	"	"	
Aldrin	ND	0.400	"	"	"	"	"	"	

Heptachlor Epoxide	ND	0.400	"	"	"	"	"	"
Endosulfan I	ND	0.400	"	"	"	"	"	"
Dieldrin	ND	0.400	"	"	"	"	"	"
4,4'-DDE	ND	0.400	"	"	"	"	"	"
Endrin	ND	0.400	"	"	"	"	"	"
Endosulfan II	ND	0.400	"	"	"	"	"	"
4,4'-DDD	ND	0.400	"	"	"	"	"	"
Endrin Aldehyde	ND	0.400	"	"	"	"	"	"
Endosulfan Sulfate	ND	0.400	"	"	"	"	"	"
4,4'-DDT	ND	0.400	"	"	"	"	"	"
Endrin Ketone	ND	0.400	"	"	"	"	"	"
Methoxychlor	ND	0.400	"	"	"	"	"	"
Chlordane	ND	6.70	"	"	"	"	"	"
Toxaphene	ND	8.30	"	"	"	"	"	"
Aroclor 1016	ND	3.30	"	"	"	"	"	"
Aroclor 1221	ND	3.30	"	"	"	"	"	"
Aroclor 1232	ND	3.30	"	"	"	"	"	"
Aroclor 1242	ND	3.30	"	"	"	"	"	"
Aroclor 1248	ND	3.30	"	"	"	"	"	"
Aroclor 1254	ND	3.30	"	"	"	"	"	"
Aroclor 1260	ND	3.30	"	"	"	"	"	"
Tetrachloro-meta-xylene [surr]	*82.8%*	(61 - 140)		"	"	"	"	"
Decachlorobiphenyl [surr]	*83.8%*	(56 - 136)		"	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AL60116	12/01/06	12/04/06	8270	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	"	
3 & 4-methylphenol	ND	130	"	"	"	"	"	"	
nitrobenzene	ND	67	"	"	"	"	"	"	
isophorone	ND	67	"	"	"	"	"	"	
2-nitrophenol	ND	130	"	"	"	"	"	"	
2,4-dimethylphenol	ND	130	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"	"	
benzoic acid	ND	330	"	"	"	"	"	"	
2,4-dichlorophenol	ND	130	"	"	"	"	"	"	
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"	"	
naphthalene	ND	67	"	"	"	"	"	"	
4-chloroaniline	ND	67	"	"	"	"	"	"	

hexachlorobutadiene	ND	67	"	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"	"
phenanthrene	ND	67	"	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"	"
fluoranthene	ND	67	"	"	"	"	"	"
pyrene	ND	67	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"	"
bis(2-ethylhexyl)phthalate	ND	67	"	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	67	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"	"
Benzo (a) pyrene	ND	67	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"	"

2-Fluorophenol [surr]	*56.8%*	(40 - 103)	"	"	"	"	"
Phenol-d6 [surr]	*59.7%*	(43 - 108)	"	"	"	"	"
Nitrobenzene-d5 [surr]	*58.5%*	(50 - 98)	"	"	"	"	"
2-Fluorobiphenyl [surr]	*58.5%*	(49 - 98)	"	"	"	"	"
2,4,6-Tribromophenol [surr]	*65.7%*	(52 - 112)	"	"	"	"	"
Terphenyl-d14 [surr]	*67.1%*	(43 - 108)	"	"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Cyanide (total)	ND	0.50	mg/kg (dry)	1	AL60427	12/04/06	12/04/06	EPA 9014	
% Solids	**79.9**	0.1	%	"	AK63011	11/29/06	11/30/06	% calculation	

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WASTE STREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716 876 5290
Fx:716 876 2412
www.wastestream.com

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Results for 6K27013-05RE1 Search Work Order Log Out 05RE1 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:28

BF-Bldg10BTM-112706
6K27013-05RE1 (Soil)
Waste Stream Technology Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
chloromethane	ND	10	ug/kg (dry)	1	AK63004	11/30/06	11/30/06	8260	
vinyl chloride	ND	10	"	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	"	
carbon disulfide	ND	2	"	"	"	"	"	"	
methylene chloride	ND	2	"	"	"	"	"	"	
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
1,1-dichloroethane	ND	2	"	"	"	"	"	"	
vinyl acetate	ND	10	"	"	"	"	"	"	
2-butanone	ND	10	"	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	"	
chloroform	ND	2	"	"	"	"	"	"	
1,1,1-trichloroethane	ND	2	"	"	"	"	"	"	
carbon tetrachloride	ND	2	"	"	"	"	"	"	
benzene	**6**	2	"	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	"	
trichloroethene	ND	2	"	"	"	"	"	"	
1,2-dichloropropane	ND	2	"	"	"	"	"	"	
bromodichloromethane	ND	2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	"	
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
toluene	**12**	2	"	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	"	
1,1,2-trichloroethane	ND	2	"	"	"	"	"	"	
2-hexanone	ND	10	"	"	"	"	"	"	
tetrachloroethene	ND	2	"	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	"	
chlorobenzene	ND	2	"	"	"	"	"	"	
ethylbenzene	ND	2	"	"	"	"	"	"	
m,p-xylene	**12**	4	"	"	"	"	"	"	
o-xylene	**4**	2	"	"	"	"	"	"	

styrene	ND	2	"	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	"
Dibromofluoromethane [surr]	*97.7%*	(70 - 130)		"	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*97.3%*	(69 - 132)		"	"	"	"	"
Toluene-d8 [surr]	*94.0%*	(81 - 121)		"	"	"	"	"
Bromofluorobenzene [surr]	*96.0%*	(83 - 121)		"	"	"	"	"

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WASTE STREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716.876.2412
www.wastestream.com

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Results for 6K27013-06 Search Work Order Log Out 06 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/05/06 09:29

BF-Bldg10SP-112706
6K27013-06 (Soil)
Waste Stream Technology Inc.

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	ND	0.001	mg/L	1	AL60103	12/01/06	12/01/06	EPA 7470A-TCLP	
Silver	ND	0.025	"	5	AK63019	11/30/06	11/30/06	6010B	
Arsenic	ND	0.045	"	"	"	"	"	"	
Barium	**0.487**	0.025	"	"	"	"	"	"	
Cadmium	ND	0.025	"	"	"	"	"	"	
Chromium	ND	0.025	"	"	"	"	"	"	
Lead	ND	0.075	"	"	"	"	"	"	
Selenium	ND	0.095	"	"	"	"	"	"	

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Aroclor 1016	ND	3.30	ug/kg (dry)	1	AK62923	11/29/06	11/30/06	8082	
Aroclor 1221	ND	3.30	"	"	"	"	"	"	
Aroclor 1232	ND	3.30	"	"	"	"	"	"	
Aroclor 1242	ND	3.30	"	"	"	"	"	"	
Aroclor 1248	ND	3.30	"	"	"	"	"	"	
Aroclor 1254	ND	3.30	"	"	"	"	"	"	
Aroclor 1260	ND	3.30	"	"	"	"	"	"	
Tetrachloro-meta-xylene [surr]	*92.1%*	(61 - 140)		"	"	"	"	"	
Decachlorobiphenyl [surr]	*83.7%*	(56 - 136)		"	"	"	"	"	

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
vinyl chloride	ND	10	ug/l	1	AL60402	12/04/06	12/04/06	8260-TCLP	
1,1-dichloroethene	ND	10	"	"	"	"	"	"	
2-butanone	ND	100	"	"	"	"	"	"	
chloroform	ND	10	"	"	"	"	"	"	
carbon tetrachloride	ND	10	"	"	"	"	"	"	
benzene	ND	10	"	"	"	"	"	"	
1,2-dichloroethane	ND	10	"	"	"	"	"	"	

trichloroethene	ND	10	"	"	"	"	"	"
tetrachloroethene	ND	10	"	"	"	"	"	"
chlorobenzene	ND	10	"	"	"	"	"	"
1,4-dichlorobenzene	ND	10	"	"	"	"	"	"
Dibromofluoromethane [surr]	*103%*	(75 - 125)		"	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*106%*	(66 - 128)		"	"	"	"	"
Toluene-d8 [surr]	*97.7%*	(81 - 118)		"	"	"	"	"
Bromofluorobenzene [surr]	*96.0%*	(85 - 123)		"	"	"	"	"

TCLP Pesticides by EPA Method 1311/8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Gamma-BHC (Lindane)	ND	0.040	ug/l	1	AL60118	12/01/06	12/01/06	EPA 8081A	
Heptachlor	ND	0.040	"	"	"	"	"	"	
Heptachlor Epoxide	ND	0.040	"	"	"	"	"	"	
Endrin	ND	0.040	"	"	"	"	"	"	
Methoxychlor	ND	0.040	"	"	"	"	"	"	
Chlordane	ND	0.800	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	
Tetrachloro-meta-xylene [surr]	*90.5%*	(55 - 135)		"	"	"	"	"	
Decachlorobiphenyl [surr]	*72.5%*	(58 - 130)		"	"	"	"	"	

TCLP Semivolatile Organic Compounds by EPA Method 1311/8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
pyridine	ND	8	ug/l	1	AL60119	12/01/06	12/01/06	8270C-TCLP	
1,4-dichlorobenzene	ND	8	"	"	"	"	"	"	
Total cresols (o,m & p)	ND	24	"	"	"	"	"	"	
hexachloroethane	ND	8	"	"	"	"	"	"	
nitrobenzene	ND	8	"	"	"	"	"	"	
hexachlorobutadiene	ND	8	"	"	"	"	"	"	
2,4,6-trichlorophenol	ND	16	"	"	"	"	"	"	
2,4,5-trichlorophenol	ND	8	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	8	"	"	"	"	"	"	
hexachlorobenzene	ND	8	"	"	"	"	"	"	
pentachlorophenol	ND	16	"	"	"	"	"	"	
2-Fluorophenol [surr]	*28.8%*	(22 - 57)		"	"	"	"	"	
Phenol-d6 [surr]	*18.8%*	(15 - 38)		"	"	"	"	"	
Nitrobenzene-d5 [surr]	*55.2%*	(45 - 106)		"	"	"	"	"	
2-Fluorobiphenyl [surr]	*55.0%*	(45 - 105)		"	"	"	"	"	
2,4,6-Tribromophenol [surr]	*53.8%*	(45 - 119)		"	"	"	"	"	
Terphenyl-d14 [surr]	*61.2%*	(31 - 127)		"	"	"	"	"	

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
pH	**8.82**	0.10	pH Units	1	AK63009	11/28/06	11/28/06	EPA 9045C	

% Solids	**80.9**	0.1	%	"	AK63011	11/29/06	11/30/06	% calculation

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Ignitability by Flashpoint	**>200**		deg F	1	AK63010	11/28/06	11/28/06	EPA 1010	
Reactive Cyanide	ND	40.0	mg/kg	"	AL60418	12/01/06	12/04/06	Section 7.3.3.2	
Reactive Sulfide	ND	40.0	"	"	AL60417	"	"	Section 7.3.4.2	

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APPENDIX B

Sample Analytical Results of Black Sand

Columbia Analytical Services inc.

1 Mustard St.,Suite 250
Rochester, NY 14609

Date: January 3, 2007
Number of pages:_____

To:

Mr. Rob Rivera
Brown & Caldwell
990 Hammond Dr.
Suite 400
Atlanta, GA 30328

Phone: (770) 673-3621

Fax: (770) 396-9495

CC:

From:

Janice Jaeger

Phone: (585) 288-5380

Fax: (585) 288-8475

RUSH REPORT

Submission #: R2635099
Project Reference: HOWDEN BUFFALO - PROJECT#131303

IMPORTANT NOTICE:

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C TCLP
Reported: 01/03/07

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303
Client Sample ID : 9-T

Date Sampled : 12/22/06 13:00 **Order #:** 962737 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 12/26/06 **Submission #:** R2635099 **Analytical Run** 139153

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 12/29/06			
DATE ANALYZED : 12/29/06			
ANALYTICAL DILUTION: 10.00			
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-D14	(48 - 131 %)	96	%
NITROBENZENE-D5	(27 - 130 %)	81	%
PHENOL-D6	(10 - 133 %)	34	%
2-FLUOROBIPHENYL	(32 - 130 %)	76	%
2-FLUOROPHENOL	(10 - 130 %)	50	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	70	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C TCLP
Reported: 01/03/07

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303
Client Sample ID : 10-T

Date Sampled : 12/22/06 13:15 **Order #:** 965580 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 12/26/06 **Submission #:** R2635099 **Analytical Run** 139153

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 12/29/06			
DATE ANALYZED : 12/29/06			
ANALYTICAL DILUTION: 10.00			
1,4-DICHLOROBENZENE	10	100 U	UG/L
2,4-DINITROTOLUENE	10	100 U	UG/L
HEXACHLOROBENZENE	10	100 U	UG/L
HEXACHLOROBUTADIENE	10	100 U	UG/L
HEXACHLOROETHANE	10	100 U	UG/L
2-METHYLPHENOL	10	100 U	UG/L
3+4-METHYLPHENOL	10	100 U	UG/L
NITROBENZENE	10	100 U	UG/L
PENTACHLOROPHENOL	50	500 U	UG/L
PYRIDINE	50	500 U	UG/L
2,4,6-TRICHLOROPHENOL	10	100 U	UG/L
2,4,5-TRICHLOROPHENOL	10	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-D14	(48 - 131 %)	101	%
NITROBENZENE-D5	(27 - 130 %)	86	%
PHENOL-D6	(10 - 133 %)	37	%
2-FLUOROBIPHENYL	(32 - 130 %)	80	%
2-FLUOROPHENOL	(10 - 130 %)	54	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	73	%

Data Reported following TCLP Toxicity Characteristics Leaching Procedure.
Federal Register, Part 261, Vol. 55, NO 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

Reported: 01/03/07

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303
Client Sample ID : 9-T

Date Sampled : 12/22/06 13:00 **Order #:** 962737 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 12/26/06 **Submission #:** R2635099

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
METALS						
ARSENIC	6010B	0.500	0.500 U	MG/L	12/29/06	1.0
BARIUM	6010B	1.00	1.00 U	MG/L	12/29/06	1.0
CADMIUM	6010B	0.100	0.100 U	MG/L	12/29/06	1.0
CHROMIUM	6010B	0.100	0.100 U	MG/L	12/29/06	1.0
LEAD	6010B	0.100	0.366	MG/L	12/29/06	1.0
MERCURY	7470A	0.000300	0.00300 U	MG/L	01/02/07	10.0
SELENIUM	6010B	0.500	0.500 U	MG/L	01/02/07	1.0
SILVER	6010B	0.100	0.100 U	MG/L	12/29/06	1.0

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

COLUMBIA ANALYTICAL SERVICES

Reported: 01/03/07

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303
Client Sample ID : 10-T

Date Sampled : 12/22/06 13:15 **Order #:** 965580 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 12/26/06 **Submission #:** R2635099

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
METALS						
ARSENIC	6010B	0.500	0.500 U	MG/L	12/29/06	1.0
BARIUM	6010B	1.00	1.00 U	MG/L	12/29/06	1.0
CADMIUM	6010B	0.100	0.100 U	MG/L	12/29/06	1.0
CHROMIUM	6010B	0.100	0.100 U	MG/L	12/29/06	1.0
LEAD	6010B	0.100	0.100 U	MG/L	12/29/06	1.0
MERCURY	7470A	0.000300	0.00300 U	MG/L	01/02/07	10.0
SELENIUM	6010B	0.500	0.500 U	MG/L	01/02/07	1.0
SILVER	6010B	0.100	0.100 U	MG/L	12/29/06	1.0

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

December 11, 2006

Mr. Rob Rivera
Brown & Caldwell
990 Hammond Dr.
Suite 400
Atlanta, GA 30328

PROJECT:HOWDEN BUFFALO - PROJECT#131303.002
Submission #:R2634964

Dear Mr. Rivera

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Janice Jaeger
Project Chemist

Enc.

Columbia Analytical Services, Inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303.002
Lab Submission # : R2634964
Project Manager : Janice Jaeger
Reported : 12/11/06

Report Contains a total of 12 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael E. Peracy

Columbia Analytical Services, Inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2634964

Lab ID	Client ID
959094	10-FS-001
959095	10-FS-002

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

Service Quality Environmental Ethics ACIL 2005 SEAL OF EXCELLENCE PROGRAM

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

COLUMBIA ANALYTICAL SERVICES

Reported: 12/11/06

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303.002
Client Sample ID : 10-FS-001

Date Sampled : 11/29/06 12:45 **Order #:** 959094 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 11/30/06 **Submission #:** R2634964

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	66.3	%	12/01/06	11:14	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 12/11/06

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303.002
Client Sample ID : 10-FS-001

Date Sampled : 11/29/06 12:45 **Order #:** 959094 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 11/30/06 **Submission #:** R2634964

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
ALUMINUM	6010B	10.0	10500	MG/KG	12/06/06	1.0
ANTIMONY	6010B	6.00	9.05 U	MG/KG	12/06/06	1.0
ARSENIC	6010B	1.00	13.7	MG/KG	12/06/06	1.0
BARIUM	6010B	2.00	113	MG/KG	12/06/06	1.0
BERYLLIUM	6010B	0.500	0.911	MG/KG	12/06/06	1.0
CADMIUM	6010B	0.500	0.777	MG/KG	12/06/06	1.0
CALCIUM	6010B	100	43300	MG/KG	12/07/06	10.0
CHROMIUM	6010B	1.00	27.0	MG/KG	12/06/06	1.0
COBALT	6010B	5.00	7.54 U	MG/KG	12/06/06	1.0
COPPER	6010B	2.00	82.1	MG/KG	12/06/06	1.0
IRON	6010B	10.0	38500	MG/KG	12/07/06	10.0
LEAD	6010B	5.00	284	MG/KG	12/06/06	1.0
MAGNESIUM	6010B	100	8110	MG/KG	12/06/06	1.0
MANGANESE	6010B	1.00	1300	MG/KG	12/06/06	1.0
MERCURY	7471A	0.0500	0.370	MG/KG	12/06/06	1.0
NICKEL	6010B	4.00	22.2	MG/KG	12/06/06	1.0
POTASSIUM	6010B	200	2010	MG/KG	12/06/06	1.0
SELENIUM	6010B	1.00	5.19	MG/KG	12/06/06	1.0
SILVER	6010B	1.00	1.51 U	MG/KG	12/06/06	1.0
SODIUM	6010B	100	992	MG/KG	12/07/06	1.0
THALLIUM	6010B	1.00	15.1 U	MG/KG	12/07/06	10.0
VANADIUM	6010B	5.00	25.8	MG/KG	12/06/06	1.0
ZINC	6010B	2.00	219	MG/KG	12/06/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 12/11/06

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303.002
Client Sample ID : 10-FS-002

Date Sampled : 11/29/06 12:50 **Order #:** 959095 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 11/30/06 **Submission #:** R2634964

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	87.8	%	12/01/06	11:14	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 12/11/06

Brown & Caldwell
Project Reference: HOWDEN BUFFALO - PROJECT#131303.002
Client Sample ID : 10-FS-002

Date Sampled : 11/29/06 12:50 **Order #:** 959095 **Sample Matrix:** SOIL/SEDIMENT
Date Received: 11/30/06 **Submission #:** R2634964

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	DILUTION
ALUMINUM	6010B	10.0	5980	MG/KG	12/06/06	1.0
ANTIMONY	6010B	6.00	6.83 U	MG/KG	12/06/06	1.0
ARSENIC	6010B	1.00	25.7	MG/KG	12/06/06	1.0
BARIUM	6010B	2.00	81.9	MG/KG	12/06/06	1.0
BERYLLIUM	6010B	0.500	0.615	MG/KG	12/06/06	1.0
CADMIUM	6010B	0.500	1.44	MG/KG	12/06/06	1.0
CALCIUM	6010B	100	18100	MG/KG	12/06/06	1.0
CHROMIUM	6010B	1.00	58.3	MG/KG	12/06/06	1.0
COBALT	6010B	5.00	7.07	MG/KG	12/06/06	1.0
COPPER	6010B	2.00	179	MG/KG	12/06/06	1.0
IRON	6010B	10.0	67500	MG/KG	12/07/06	20.0
LEAD	6010B	5.00	514	MG/KG	12/06/06	1.0
MAGNESIUM	6010B	100	4580	MG/KG	12/06/06	1.0
MANGANESE	6010B	1.00	3080	MG/KG	12/07/06	20.0
MERCURY	7471A	0.0500	0.0952	MG/KG	12/06/06	1.0
NICKEL	6010B	4.00	27.9	MG/KG	12/06/06	1.0
POTASSIUM	6010B	200	1660	MG/KG	12/06/06	1.0
SELENIUM	6010B	1.00	8.33	MG/KG	12/06/06	1.0
SILVER	6010B	1.00	3.36	MG/KG	12/06/06	1.0
SODIUM	6010B	100	1110	MG/KG	12/07/06	1.0
THALLIUM	6010B	1.00	22.8 U	MG/KG	12/07/06	20.0
VANADIUM	6010B	5.00	24.8	MG/KG	12/06/06	1.0
ZINC	6010B	2.00	781	MG/KG	12/07/06	20.0

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2634964
Client: Brown & Caldwell
HOWDEN BUFFALO - PROJECT#131303.002

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
ERCURY	0.0500 U	2.03	1.77	115	57 - 142	138259	MG/KG
OTASSIUM	200 U	2910	2440	119	73 - 127	138316	MG/KG
LUMINUM	10.0 U	7620	7120	107	51 - 149	138342	MG/KG
NTIMONY	6.00 U	127	86.2	147	18 - 209	138342	MG/KG
RSENIC	1.00 U	146	146	100	74 - 126	138342	MG/KG
ARIUM	2.00 U	382	351	109	77 - 123	138342	MG/KG
ERYLLIUM	0.500 U	64.0	62.2	103	78 - 122	138342	MG/KG
ADMIUM	0.500 U	96.6	91.9	105	77 - 123	138342	MG/KG
ALCIUM	100 U	3870	3900	99	75 - 126	138342	MG/KG
HROMIUM	1.00 U	186	176	106	80 - 120	138342	MG/KG

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2634964
Client: Brown & Caldwell
HOWDEN BUFFALO - PROJECT#131303.002

	BLANK SPIKES					
	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
OBALT	5.00 U	63.3	58.5	108	79 - 120	138342	MG/KG
OPPER	2.00 U	73.8	70.0	105	82 - 118	138342	MG/KG
EAD	5.00 U	77.4	68.1	114	76 - 124	138342	MG/KG
AGNESIUM	100 U	2360	2180	108	75 - 125	138342	MG/KG
ANGANESE	1.00 U	224	210	107	80 - 120	138342	MG/KG
ICKEL	4.00 U	93.4	84.0	111	78 - 122	138342	MG/KG
ELENIUM	1.00 U	71.8	73.0	98	74 - 125	138342	MG/KG
ILVER	1.00 U	98.6	93.0	106	74 - 126	138342	MG/KG
ANADIUM	5.00 U	155	148	105	68 - 132	138342	MG/KG
INC	2.00 U	420	402	105	77 - 123	138342	MG/KG

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2634964
Client: Brown & Caldwell
HOWDEN BUFFALO - PROJECT#131303.002

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
ODIUM	100 U	696	697	100	56 - 145	138367	MG/KG

Columbia Analytical Services, Inc.
An Employee - Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR #
CAS Contact AK

Project Name: HOWDEN BUFFALO	Project Number: 131303.002
Project Manager: ROB RIVERA	Report CC:
Company/Address: BROWN AND CALDWELL 990 HAMMOND DRIVE, SUITE 400 ATLANTA GA 30328	
Phone #: 770-673-3652	FAX#: 770-396 9495
Sampler's Signature: Neal Strickland	Sampler's Printed Name: NEAL STRICKLAND

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608 ☐CLP	PCB's ☐8082 ☐608 ☐CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TAL METALS	REMARKS/ ALTERNATE DESCRIPTION
10-FS-001	959094	11/29/06	12:45	SOIL	1								1	
10-FS-002	959095	11/29/06	12:50	SOIL	1								1	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ICE

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
✓ **RUSH** (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
___ **STANDARD**
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
SAME AS
PO# PROJECT MANAGER
BILL TO:
SUBMISSION #: 263464

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Neal Strickland	Signature: FED EX	Signature	Signature: Kellyn M. Cook	Signature	Signature
Printed Name: NEAL STRICKLAND	Printed Name	Printed Name	Printed Name: Cook	Printed Name	Printed Name
Firm: BROWN AND CALDWELL	Firm	Firm	Firm: CAS	Firm	Firm
Date/Time: 11/29/06 1430	Date/Time: 11/29/06 1430	Date/Time	Date/Time: 11/30/06 1035	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client Brown & Caldwell Submission Number R263484

Cooler received on 11/30/06 by: KM **COURIER:** CAS UPS (FEDEX) VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	(YES)	NO			
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO			
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO			
4.	Did any VOA vials have significant air bubbles?	YES	NO	(N/A)		
5.	Were **Ice** or **Ice packs** present?	(YES)	NO			
6.	Where did the bottles originate?	(CAS/ROC)	CLIENT			
7.	Temperature of cooler(s) upon receipt:	6°C				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 11/30/06 1040

Thermometer ID: 161 or (IR GUN) Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

PC Secondary Review: KM 11/30/06

Cooler Breakdown: Date: 11/30/06 by: KM

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≤2	HNO_3						
≤2	H_2SO_4						
Residual Chlorine (+/-)	for TCN & Phenol						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: KM 12/04/06

APPENDIX C

Sample Analytical Results in Miscellaneous Remedial Excavations

WASTE STREAM TECHNOLOGY, INC.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 11/16/06
Work Order Number: 6K09019

Prepared For
Jeff Shirley
Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302
Fax: (716) 285-4201

Site: Buffalo Forge E916

stockpile analysis
NW corner of 25

Enclosed are the results of analyses for samples received by the laboratory on 11/09/06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel W. Vollmer

Daniel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757 CTDPH #PH-0306 MADEP #M-NY068

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BF-Stockpile#1-110906	6K09019-05	Soil	11/09/06 14:20	11/09/06 15:55

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

TCLP Metals by 6000/7000 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20 Received: 11/09/06 15:55**								
Mercury	ND	0.001	mg/L	1	AK61409	11/14/06	11/14/06	EPA 7470A-TCLP	
Silver	ND	0.025	"	5	AK61406	11/14/06	11/15/06	6010B	
Arsenic	ND	0.045	"	"	"	"	"	"	
Barium	0.689	0.025	"	"	"	"	"	"	
Cadmium	ND	0.025	"	"	"	"	"	"	
Chromium	ND	0.025	"	"	"	"	"	"	
Lead	0.091	0.075	"	"	"	"	"	"	
Selenium	ND	0.095	"	"	"	"	"	"	

Sevenson Environmental Services 2749 Lockport Road Niagara Falls NY, 14302	Project: Buffalo Forge - Solids Project Number: Buffalo Forge E916 Project Manager: Jeff Shirley	Reported: 11/16/06 16:53

Polychlorinated Biphenyls by EPA Method 8082

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05RE1) Soil	**Sampled: 11/09/06 14:20 Received: 11/09/06 15:55**								
Aroclor 1016	ND	33.0	ug/kg dry	10	AK61313	11/13/06	11/15/06	8082	
Aroclor 1221	ND	33.0	"	"	"	"	"	"	
Aroclor 1232	ND	33.0	"	"	"	"	"	"	U
Aroclor 1242	ND	33.0	"	"	"	"	"	"	U
Aroclor 1248	ND	33.0	"	"	"	"	"	"	
Aroclor 1254	ND	33.0	"	"	"	"	"	"	U
Aroclor 1260	ND	33.0	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*99.0 %*		*61-140*		"	"	"	
Surrogate: Decachlorobiphenyl		*103 %*		*56-136*		"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20**		**Received: 11/09/06 15:55**						
vinyl chloride	ND	10	ug/l	1	AK61403	11/14/06	11/14/06	8260-TCLP	U
1,1-dichloroethene	ND	10	"	"	"	"	"	"	U
2-butanone	ND	100	"	"	"	"	"	"	U
chloroform	ND	10	"	"	"	"	"	"	U
carbon tetrachloride	ND	10	"	"	"	"	"	"	U
benzene	ND	10	"	"	"	"	"	"	U
1,2-dichloroethane	ND	10	"	"	"	"	"	"	U
trichloroethene	ND	10	"	"	"	"	"	"	U
tetrachloroethene	ND	10	"	"	"	"	"	"	U
chlorobenzene	ND	10	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	10	"	"	"	"	"	"	U
Surrogate: Dibromofluoromethane		*105 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*66-128*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*81-118*		"	"	"	"	
Surrogate: Bromofluorobenzene		*108 %*	*85-123*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

TCLP Pesticides by EPA Method 1311/8081A

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Steckpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20 Received: 11/09/06 15:55**								
Gamma-BHC (Lindane)	ND	0.040	ug/l	1	AK61415	11/14/06	11/15/06	EPA 8081A	U
Heptachlor	ND	0.040	"	"	"	"	"	"	U
Heptachlor Epoxide	ND	0.040	"	"	"	"	"	"	U
Endrin	ND	0.040	"	"	"	"	"	"	U
Methoxychlor	ND	0.040	"	"	"	"	"	"	U
Chlordane	ND	0.800	"	"	"	"	"	"	U
Toxaphene	ND	0.040	"	"	"	"	"	"	U
Surrogate: Tetrachloro-meta-xylene		*97.0 %*	*55-135*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*87.5 %*	*58-130*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

TCLP Herbicides by EPA Method 1311/8151A

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20 Received: 11/09/06 15:55**								
2,4-D	ND	20.0	ug/l	50	AK61001	11/10/06	11/14/06	8151	U
2,4,5-TP (Silvex)	ND	20.0	"	"	"	"	"	"	U
Surrogate: 2,4-DCPAA		*95.8 %*	*24-146*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

TCLP Semivolatile Organic Compounds by EPA Method 1311/8270C

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20**		**Received: 11/09/06 15:55**						
pyridine	ND	8	ug/l	1	AK61501	11/15/06	11/15/06	8270C-TCLP	U
1,4-dichlorobenzene	ND	8	"	"	"	"	"	"	U
Total cresols (o,m & p)	ND	24	"	"	"	"	"	"	U
hexachloroethane	ND	8	"	"	"	"	"	"	U
nitrobenzene	ND	8	"	"	"	"	"	"	U
hexachlorobutadiene	ND	8	"	"	"	"	"	"	U
2,4,6-trichlorophenol	ND	16	"	"	"	"	"	"	U
2,4,5-trichlorophenol	ND	8	"	"	"	"	"	"	U
2,4-dinitrotoluene	ND	8	"	"	"	"	"	"	U
hexachlorobenzene	ND	8	"	"	"	"	"	"	U
pentachlorophenol	ND	16	"	"	"	"	"	"	U
Surrogate: 2-Fluorophenol		*41.9 %*	*22-57*		"	"	"	"	
Surrogate: Phenol-d6		*26.5 %*	*15-38*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*90.2 %*	*45-106*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*89.5 %*	*45-105*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*93.1 %*	*45-119*		"	"	"	"	
Surrogate: Terphenyl-d14		*96.0 %*	*31-127*		"	"	"	"	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

Conventional Chemistry Parameters by EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20**		**Received: 11/09/06 15:55**						
pH	9.68	0.10	pH Units	1	AK61325	11/13/06	11/13/06	EPA 9045C	
% Solids	83.9	0.1	%	"	AK61402	11/13/06	11/14/06	% calculation	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

Physical Parameters by APHA/ASTM/EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BF-Stockpile#1-110906 (6K09019-05) Soil	**Sampled: 11/09/06 14:20 Received: 11/09/06 15:55**								
Ignitability by Flashpoint	>200		deg F	1	AK61323	11/12/06	11/13/06	EPA 1010	
Reactive Cyanide	ND	40.0	mg/kg	"	AK61329	11/10/06	11/13/06	Section 7.3.3.2	U
Reactive Sulfide	ND	40.0	"	"	AK61330	"	11/13/06	Section 7.3.4.2	

Sevenson Environmental Services	Project: Buffalo Forge - Solids	
2749 Lockport Road	Project Number: Buffalo Forge E916	Reported:
Niagara Falls NY, 14302	Project Manager: Jeff Shirley	11/16/06 16:53

Notes and Definitions

U	Analyte included in the analysis, but not detected
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

WASTESTREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716.876.2412
www.wastestream.com

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

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BF-Nsids-110906
6K09019-01 (Soil)
Waste Stream Technology Inc.

4 Sidewall Analysis
NW bld 25.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Mercury	0.065 ✓	0.014	mg/kg (dry)	1	AK61309	11/13/06	11/13/06	EPA 7
Silver	ND	2.50	"	5	AK61021	11/11/06	"	EPA 6
Aluminum	10600 ✓	12.5	"	"	"	"	"	"
Arsenic	ND	8.50	"	"	"	"	"	"
Barium	112 ✓	5.00	"	"	"	"	"	"
Beryllium	ND	2.50	"	"	"	"	"	"
Calcium	122000 high	130	"	"	"	"	"	"
Cadmium	ND	5.00	"	"	"	"	"	"
Cobalt	9.88 ✓	5.00	"	"	"	"	"	"
Chromium	20.0 ✓	5.00	"	"	"	"	"	"
Copper	31.0 ✓	5.00	"	"	"	"	"	"
Iron	19400 ✓	41.5	"	"	"	"	"	"
Magnesium	33000 high	60.0	"	"	"	"	"	"
Manganese	669 ✓	5.00	"	"	"	"	"	"
Nickel	22.4 ✓	5.00	"	"	"	"	"	"
Lead	31.5 high	20.5	"	"	"	"	"	"
Antimony	ND	7.00	"	"	"	"	"	"
Selenium	ND	7.00	"	"	"	"	"	"
Thallium	ND	5.00	"	"	"	"	"	"
Vanadium	22.2 ✓	5.00	"	"	"	"	"	"
Zinc	262 high	20.0	"	"	"	"	"	"
Potassium	1860 ✓	14.0	"	1	AK61022	"	"	"
Sodium	302 ✓	45.0	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
chloromethane	ND	10	ug/kg (dry)	1	AK61007	11/10/06	11/10/06	
vinyl chloride	ND	10	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	

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302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716.876.2412
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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

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BF-Wside-110906
6K09019-02 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Mercury	**0.049** ✓	0.014	mg/kg (dry)	1	AK61309	11/13/06	11/13/06	EPA 7
Silver	ND	2.50	"	5	AK61021	11/11/06	"	EPA 6
Aluminum	**5790** ✓	12.5	"	"	"	"	"	"
Arsenic	ND	8.50	"	"	"	"	"	"
Barium	**72.0** ✓	5.00	"	"	"	"	"	"
Beryllium	ND	2.50	"	"	"	"	"	"
Calcium	**84000** high	130	"	"	"	"	"	"
Cadmium	ND	5.00	"	"	"	"	"	"
Cobalt	ND	5.00	"	"	"	"	"	"
Chromium	**11.6** ✓	5.00	"	"	"	"	"	"
Copper	**16.5** ✓	5.00	"	"	"	"	"	"
Iron	**12100** ✓	41.5	"	"	"	"	"	"
Magnesium	**19900** high	60.0	"	"	"	"	"	"
Manganese	**355** ✓	5.00	"	"	"	"	"	"
Nickel	**11.9** ✓	5.00	"	"	"	"	"	"
Lead	**69.7** high	20.5	"	"	"	"	"	"
Antimony	ND	7.00	"	"	"	"	"	"
Selenium	ND	7.00	"	"	"	"	"	"
Thallium	ND	5.00	"	"	"	"	"	"
Vanadium	**14.2** ✓	5.00	"	"	"	"	"	"
Zinc	**108** high	20.0	"	"	"	"	"	"
Potassium	**964** ✓	14.0	"	1	AK61022	"	"	"
Sodium	**183** ✓	45.0	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
chloromethane	ND	10	ug/kg (dry)	1	AK61007	11/10/06	11/10/06	
vinyl chloride	ND	10	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	

Benzo (a) pyrene	ND	67	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"
2-Fluorophenol [surr]	*93.1%*	(40 - 103)		"	"	"	"
Phenol-d6 [surr]	*98.4%*	(43 - 108)		"	"	"	"
Nitrobenzene-d5 [surr]	*91.8%*	(50 - 98)		"	"	"	"
2-Fluorobiphenyl [surr]	*102%*	(49 - 98)		"	"	"	"
2,4,6-Tribromophenol [surr]	*105%*	(52 - 112)		"	"	"	"
Terphenyl-d14 [surr]	*108%*	(43 - 108)		"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Cyanide (total)	ND	0.50	mg/kg (dry)	1	AK61331	11/13/06	11/13/06	EPA 9
% Solids	**90.4**	0.1	%	"	AK61402	"	11/14/06	% calc

3 & 4-methylphenol	ND	130	"	"	"	"	"
nitrobenzene	ND	67	"	"	"	"	"
isophorone	ND	67	"	"	"	"	"
2-nitrophenol	ND	130	"	"	"	"	"
2,4-dimethylphenol	ND	130	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"
benzoic acid	ND	330	"	"	"	"	"
2,4-dichlorophenol	ND	130	"	"	"	"	"
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"
naphthalene	**77** ✓	67	"	"	"	"	"
4-chloroaniline	ND	67	"	"	"	"	"
hexachlorobutadiene	ND	67	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"
phenanthrene	**250** ✓	67	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"
fluoranthene	**90** ✓	67	"	"	"	"	"
pyrene	**77** ✓	67	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"
bis(2-ethylhexyl)phthalate	**2370** ✓	67	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"
Benzo (b) fluoranthene	**76** ✓	67	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"

carbon disulfide	ND	2	"	"	"	"	"	
methylene chloride	93	2	"	"	"	"	"	
trans-1,2-dichloroethene	ND	2	"	"	"	"	"	
1,1-dichloroethane	ND	2	"	"	"	"	"	
vinyl acetate	ND	10	"	"	"	"	"	
2-butanone	ND	10	"	"	"	"	"	
cis-1,2-dichloroethene	ND	2	"	"	"	"	"	
chloroform	ND	2	"	"	"	"	"	
1,1,1-trichloroethane	ND	2	"	"	"	"	"	
carbon tetrachloride	ND	2	"	"	"	"	"	
benzene	ND	2	"	"	"	"	"	
1,2-dichloroethane	ND	2	"	"	"	"	"	
trichloroethene	ND	2	"	"	"	"	"	
1,2-dichloropropane	ND	2	"	"	"	"	"	
bromodichloromethane	ND	2	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"	
cis-1,3-dichloropropene	ND	2	"	"	"	"	"	
toluene	ND	2	"	"	"	"	"	
trans-1,3-dichloropropene	ND	2	"	"	"	"	"	
1,1,2-trichloroethane	ND	2	"	"	"	"	"	
2-hexanone	ND	10	"	"	"	"	"	
tetrachloroethene	ND	2	"	"	"	"	"	
dibromochloromethane	ND	2	"	"	"	"	"	
chlorobenzene	ND	2	"	"	"	"	"	
ethylbenzene	ND	2	"	"	"	"	"	
m,p-xylene	ND	4	"	"	"	"	"	
o-xylene	ND	2	"	"	"	"	"	
styrene	ND	2	"	"	"	"	"	
bromoform	ND	2	"	"	"	"	"	
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"	

Dibromofluoromethane [surr]	*102%*	(70 - 130)	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*110%*	(69 - 132)	"	"	"	"
Toluene-d8 [surr]	*102%*	(81 - 121)	"	"	"	"
Bromofluorobenzene [surr]	*105%*	(83 - 121)	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AK61314	11/13/06	11/13/06	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	

WASTESTREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716.876.2412
www.wastestream.com

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

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BF-Sside-110906
6K09019-03 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Mercury	**0.082** ✓	0.014	mg/kg (dry)	1	AK61309	11/13/06	11/13/06	EPA 7
Silver	ND	2.50	"	5	AK61021	11/11/06	"	EPA 6
Aluminum	**10700** ✓	12.5	"	"	"	"	"	"
Arsenic	ND	8.50	"	"	"	"	"	"
Barium	**112** ✓	5.00	"	"	"	"	"	"
Beryllium	ND	2.50	"	"	"	"	"	"
Calcium	**109000** high	130	"	"	"	"	"	"
Cadmium	ND	5.00	"	"	"	"	"	"
Cobalt	ND	5.00	"	"	"	"	"	"
Chromium	**13.5** ✓	5.00	"	"	"	"	"	"
Copper	**22.2** ✓	5.00	"	"	"	"	"	"
Iron	**11900** ✓	41.5	"	"	"	"	"	"
Magnesium	**21800** high	60.0	"	"	"	"	"	"
Manganese	**997** ✓	5.00	"	"	"	"	"	"
Nickel	**13.2** ✓	5.00	"	"	"	"	"	"
Lead	**150** high	20.5	"	"	"	"	"	"
Antimony	ND	7.00	"	"	"	"	"	"
Selenium	ND	7.00	"	"	"	"	"	"
Thallium	ND	5.00	"	"	"	"	"	"
Vanadium	**11.9** ✓	5.00	"	"	"	"	"	"
Zinc	**124** high	20.0	"	"	"	"	"	"
Potassium	**1230** ✓	14.0	"	1	AK61022	"	"	"
Sodium	**434** ✓	45.0	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
chloromethane	ND	10	ug/kg (dry)	1	AK61007	11/10/06	11/10/06	
vinyl chloride	ND	10	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	

Benzo (a) pyrene	ND	67	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"

2-Fluorophenol [surr]	*85.6%*	(40 - 103)	"	"	"	"
Phenol-d6 [surr]	*91.6%*	(43 - 108)	"	"	"	"
Nitrobenzene-d5 [surr]	*87.6%*	(50 - 98)	"	"	"	"
2-Fluorobiphenyl [surr]	*92.8%*	(49 - 98)	"	"	"	"
2,4,6-Tribromophenol [surr]	*105%*	(52 - 112)	"	"	"	"
Terphenyl-d14 [surr]	*107%*	(43 - 108)	"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Cyanide (total)	ND	0.50	mg/kg (dry)	1	AK61331	11/13/06	11/13/06	EPA 9
% Solids	**93.8**	0.1	%	"	AK61402	"	11/14/06	% calc

3 & 4-methylphenol	ND	130	"	"	"	"	"
nitrobenzene	ND	67	"	"	"	"	"
isophorone	ND	67	"	"	"	"	"
2-nitrophenol	ND	130	"	"	"	"	"
2,4-dimethylphenol	ND	130	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"
benzoic acid	ND	330	"	"	"	"	"
2,4-dichlorophenol	ND	130	"	"	"	"	"
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"
naphthalene	ND	67	"	"	"	"	"
4-chloroaniline	ND	67	"	"	"	"	"
hexachlorobutadiene	ND	67	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"
phenanthrene	202	67	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"
fluoranthene	ND	67	"	"	"	"	"
pyrene	ND	67	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"
bis(2-ethylhexyl)phthalate	178	67	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"
Benzo (b) fluoranthene	ND	67	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"

carbon disulfide	ND	2	"	"	"	"	"
methylene chloride	86	2	"	"	"	"	"
trans-1,2-dichloroethene	ND	2	"	"	"	"	"
1,1-dichloroethane	ND	2	"	"	"	"	"
vinyl acetate	ND	10	"	"	"	"	"
2-butanone	ND	10	"	"	"	"	"
cis-1,2-dichloroethene	ND	2	"	"	"	"	"
chloroform	ND	2	"	"	"	"	"
1,1,1-trichloroethane	ND	2	"	"	"	"	"
carbon tetrachloride	ND	2	"	"	"	"	"
benzene	ND	2	"	"	"	"	"
1,2-dichloroethane	ND	2	"	"	"	"	"
trichloroethene	ND	2	"	"	"	"	"
1,2-dichloropropane	ND	2	"	"	"	"	"
bromodichloromethane	ND	2	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"
cis-1,3-dichloropropene	ND	2	"	"	"	"	"
toluene	ND	2	"	"	"	"	"
trans-1,3-dichloropropene	ND	2	"	"	"	"	"
1,1,2-trichloroethane	ND	2	"	"	"	"	"
2-hexanone	ND	10	"	"	"	"	"
tetrachloroethene	ND	2	"	"	"	"	"
dibromochloromethane	ND	2	"	"	"	"	"
chlorobenzene	ND	2	"	"	"	"	"
ethylbenzene	ND	2	"	"	"	"	"
m,p-xylene	ND	4	"	"	"	"	"
o-xylene	ND	2	"	"	"	"	"
styrene	ND	2	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"

Dibromofluoromethane [surr]	*102%*	(70 - 130)	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*112%*	(69 - 132)	"	"	"	"
Toluene-d8 [surr]	*104%*	(81 - 121)	"	"	"	"
Bromofluorobenzene [surr]	*106%*	(83 - 121)	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AK61314	11/13/06	11/13/06	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	

WASTESTREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716.876.2412
www.wastestream.com

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

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BF-Eside-110906
6K09019-04 (Soil)
Waste Stream Technology Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Mercury	0.021	0.014	mg/kg (dry)	1	AK61309	11/13/06	11/13/06	EPA 7
Silver	ND	2.50	"	5	AK61021	11/11/06	"	EPA 6
Aluminum	7460	12.5	"	"	"	"	"	"
Arsenic	ND	8.50	"	"	"	"	"	"
Barium	76.3	5.00	"	"	"	"	"	"
Beryllium	ND	2.50	"	"	"	"	"	"
Calcium	86000 high	130	"	"	"	"	"	"
Cadmium	ND	5.00	"	"	"	"	"	"
Cobalt	5.16	5.00	"	"	"	"	"	"
Chromium	12.8	5.00	"	"	"	"	"	"
Copper	16.2	5.00	"	"	"	"	"	"
Iron	12300	41.5	"	"	"	"	"	"
Magnesium	22900 high	60.0	"	"	"	"	"	"
Manganese	460	5.00	"	"	"	"	"	"
Nickel	13.0	5.00	"	"	"	"	"	"
Lead	22.6 high	20.5	"	"	"	"	"	"
Antimony	ND	7.00	"	"	"	"	"	"
Selenium	ND	7.00	"	"	"	"	"	"
Thallium	ND	5.00	"	"	"	"	"	"
Vanadium	13.4	5.00	"	"	"	"	"	"
Zinc	83.1 high	20.0	"	"	"	"	"	"
Potassium	1120	14.0	"	1	AK61022	"	"	"
Sodium	218	45.0	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
chloromethane	ND	10	ug/kg (dry)	1	AK61007	11/10/06	11/10/06	
vinyl chloride	ND	10	"	"	"	"	"	
bromomethane	ND	10	"	"	"	"	"	
chloroethane	ND	10	"	"	"	"	"	
1,1-dichloroethene	ND	2	"	"	"	"	"	
acetone	ND	10	"	"	"	"	"	

Benzo (a) pyrene	ND	67	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"

2-Fluorophenol [surr]	*78.1%*	(40 - 103)		"	"	"	"
Phenol-d6 [surr]	*84.3%*	(43 - 108)		"	"	"	"
Nitrobenzene-d5 [surr]	*79.8%*	(50 - 98)		"	"	"	"
2-Fluorobiphenyl [surr]	*89.6%*	(49 - 98)		"	"	"	"
2,4,6-Tribromophenol [surr]	*98.3%*	(52 - 112)		"	"	"	"
Terphenyl-d14 [surr]	*105%*	(43 - 108)		"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Cyanide (total)	**1.38** high	0.50	mg/kg (dry)	1	AK61331	11/13/06	11/13/06	EPA :
% Solids	**85.4**	0.1	%	"	AK61402	"	11/14/06	% calc

3 & 4-methylphenol	ND	130	"	"	"	"	"
nitrobenzene	ND	67	"	"	"	"	"
isophorone	ND	67	"	"	"	"	"
2-nitrophenol	ND	130	"	"	"	"	"
2,4-dimethylphenol	ND	130	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"
benzoic acid	ND	330	"	"	"	"	"
2,4-dichlorophenol	ND	130	"	"	"	"	"
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"
naphthalene	ND	67	"	"	"	"	"
4-chloroaniline	ND	67	"	"	"	"	"
hexachlorobutadiene	ND	67	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"
phenanthrene	**118** ✓	67	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"
fluoranthene	ND	67	"	"	"	"	"
pyrene	ND	67	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"
bis(2-ethylhexyl)phthalate	**215** ✓	67	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"
Benzo (b) fluoranthene	ND	67	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"

carbon disulfide	ND	2	"	"	"	"	"
methylene chloride	**97** ✔	2	"	"	"	"	"
trans-1,2-dichloroethene	ND	2	"	"	"	"	"
1,1-dichloroethane	ND	2	"	"	"	"	"
vinyl acetate	ND	10	"	"	"	"	"
2-butanone	ND	10	"	"	"	"	"
cis-1,2-dichloroethene	ND	2	"	"	"	"	"
chloroform	ND	2	"	"	"	"	"
1,1,1-trichloroethane	ND	2	"	"	"	"	"
carbon tetrachloride	ND	2	"	"	"	"	"
benzene	ND	2	"	"	"	"	"
1,2-dichloroethane	ND	2	"	"	"	"	"
trichloroethene	ND	2	"	"	"	"	"
1,2-dichloropropane	ND	2	"	"	"	"	"
bromodichloromethane	ND	2	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"
cis-1,3-dichloropropene	ND	2	"	"	"	"	"
toluene	**4** ✔	2	"	"	"	"	"
trans-1,3-dichloropropene	ND	2	"	"	"	"	"
1,1,2-trichloroethane	ND	2	"	"	"	"	"
2-hexanone	ND	10	"	"	"	"	"
tetrachloroethene	ND	2	"	"	"	"	"
dibromochloromethane	ND	2	"	"	"	"	"
chlorobenzene	ND	2	"	"	"	"	"
ethylbenzene	**28** ✔	2	"	"	"	"	"
m,p-xylene	**140** ✔	4	"	"	"	"	"
o-xylene	**8** ✔	2	"	"	"	"	"
styrene	ND	2	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"

Dibromofluoromethane [surr]	*97.3%*	(70 - 130)		"	"	"	"
1,2-Dichloroethane-d4 [surr]	*127%*	(69 - 132)		"	"	"	"
Toluene-d8 [surr]	*112%*	(81 - 121)		"	"	"	"
Bromofluorobenzene [surr]	*114%*	(83 - 121)		"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AK61314	11/13/06	11/13/06	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	

WASTE STREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716.876.5290
Fx:716.876.2412
www.wastestream.com

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Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge - Solids
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

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BF-Stockpile#1-110906
6K09019-05 (Soil)
Waste Stream Technology Inc.

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis
Mercury	ND	0.001	mg/L	1	AK61409	11/14/06	11/14/06	EPA 7470A-T

TCLP Herbicides by EPA Method 1311/8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	An
2,4-D	ND	20.0	ug/l	50	AK61001	11/10/06	11/14/06	8
2,4,5-TP (Silvex)	ND	20.0	"	"	"	"	"	
2,4-DCPAA [surr]	*95.8%*	(24 - 146)		"	"	"	"	

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analy
pH	9.68	0.10	pH Units	1	AK61325	11/13/06	11/13/06	EPA 90
% Solids	83.9	0.1	%	"	AK61402	"	11/14/06	% calcul

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Ignitability by Flashpoint	>200		deg F	1	AK61323	11/13/06	11/13/06	EPA
Reactive Cyanide	ND	40.0	mg/kg	"	AK61329	11/10/06	"	Section
Reactive Sulfide	ND	40.0	"	"	AK61330	"	"	Section

Benzo (a) pyrene	ND	67	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	67	"	"	"	"	"
Dibenz (a,h) anthracene	ND	67	"	"	"	"	"
Benzo (g,h,i) perylene	ND	67	"	"	"	"	"
2-Fluorophenol [surr]	*90.3%*	(40 - 103)		"	"	"	"
Phenol-d6 [surr]	*96.0%*	(43 - 108)		"	"	"	"
Nitrobenzene-d5 [surr]	*94.1%*	(50 - 98)		"	"	"	"
2-Fluorobiphenyl [surr]	*99.7%*	(49 - 98)		"	"	"	"
2,4,6-Tribromophenol [surr]	*103%*	(52 - 112)		"	"	"	"
Terphenyl-d14 [surr]	*105%*	(43 - 108)		"	"	"	"

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Anal
Cyanide (total)	**0.60** high	0.50	mg/kg (dry)	1	AK61331	11/13/06	11/13/06	EPA
% Solids	**89.3**	0.1	%	"	AK61402	"	11/14/06	% calc

3 & 4-methylphenol	ND	130	"	"	"	"	"
nitrobenzene	ND	67	"	"	"	"	"
isophorone	ND	67	"	"	"	"	"
2-nitrophenol	ND	130	"	"	"	"	"
2,4-dimethylphenol	ND	130	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	67	"	"	"	"	"
benzoic acid	ND	330	"	"	"	"	"
2,4-dichlorophenol	ND	130	"	"	"	"	"
1,2,4-trichlorobenzene	ND	67	"	"	"	"	"
naphthalene	ND	67	"	"	"	"	"
4-chloroaniline	ND	67	"	"	"	"	"
hexachlorobutadiene	ND	67	"	"	"	"	"
4-chloro-3-methylphenol	ND	130	"	"	"	"	"
2-methylnaphthalene	ND	67	"	"	"	"	"
hexachlorocyclopentadiene	ND	130	"	"	"	"	"
2,4,6-trichlorophenol	ND	130	"	"	"	"	"
2,4,5-trichlorophenol	ND	67	"	"	"	"	"
2-chloronaphthalene	ND	67	"	"	"	"	"
2-nitroaniline	ND	67	"	"	"	"	"
acenaphthylene	ND	67	"	"	"	"	"
Dimethyl phthalate	ND	67	"	"	"	"	"
2,6-dinitrotoluene	ND	67	"	"	"	"	"
acenaphthene	ND	67	"	"	"	"	"
3-nitroaniline	ND	67	"	"	"	"	"
2,4-dinitrophenol	ND	130	"	"	"	"	"
dibenzofuran	ND	67	"	"	"	"	"
2,4-dinitrotoluene	ND	67	"	"	"	"	"
4-nitrophenol	ND	130	"	"	"	"	"
fluorene	ND	67	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	67	"	"	"	"	"
Diethyl phthalate	ND	67	"	"	"	"	"
4-nitroaniline	ND	67	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	130	"	"	"	"	"
n-nitrosodiphenylamine	ND	67	"	"	"	"	"
4-bromophenylphenylether	ND	67	"	"	"	"	"
hexachlorobenzene	ND	67	"	"	"	"	"
pentachlorophenol	ND	130	"	"	"	"	"
phenanthrene	**109** ✓	67	"	"	"	"	"
anthracene	ND	67	"	"	"	"	"
carbazole	ND	67	"	"	"	"	"
Di-n-butyl phthalate	ND	67	"	"	"	"	"
benzidine	ND	330	"	"	"	"	"
fluoranthene	ND	67	"	"	"	"	"
pyrene	ND	67	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	67	"	"	"	"	"
Butyl benzyl phthalate	ND	67	"	"	"	"	"
Benzo (a) anthracene	ND	67	"	"	"	"	"
chrysene	ND	67	"	"	"	"	"
bis(2-ethylhexyl)phthalate	**173** ✓	67	"	"	"	"	"
Di-n-octyl phthalate	ND	67	"	"	"	"	"
Benzo (b) fluoranthene	ND	67	"	"	"	"	"
Benzo (k) fluoranthene	ND	67	"	"	"	"	"

carbon disulfide	ND	2	"	"	"	"	"
methylene chloride	**89** ✓	2	"	"	"	"	"
trans-1,2-dichloroethene	ND	2	"	"	"	"	"
1,1-dichloroethane	ND	2	"	"	"	"	"
vinyl acetate	ND	10	"	"	"	"	"
2-butanone	ND	10	"	"	"	"	"
cis-1,2-dichloroethene	ND	2	"	"	"	"	"
chloroform	ND	2	"	"	"	"	"
1,1,1-trichloroethane	ND	2	"	"	"	"	"
carbon tetrachloride	ND	2	"	"	"	"	"
benzene	ND	2	"	"	"	"	"
1,2-dichloroethane	ND	2	"	"	"	"	"
trichloroethene	ND	2	"	"	"	"	"
1,2-dichloropropane	ND	2	"	"	"	"	"
bromodichloromethane	**3** ✓	2	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	10	"	"	"	"	"
cis-1,3-dichloropropene	ND	2	"	"	"	"	"
toluene	**4** ✓	2	"	"	"	"	"
trans-1,3-dichloropropene	ND	2	"	"	"	"	"
1,1,2-trichloroethane	ND	2	"	"	"	"	"
2-hexanone	ND	10	"	"	"	"	"
tetrachloroethene	ND	2	"	"	"	"	"
dibromochloromethane	ND	2	"	"	"	"	"
chlorobenzene	ND	2	"	"	"	"	"
ethylbenzene	**20** ✓	2	"	"	"	"	"
m,p-xylene	**98** ✓	4	"	"	"	"	"
o-xylene	**5** ✓	2	"	"	"	"	"
styrene	ND	2	"	"	"	"	"
bromoform	ND	2	"	"	"	"	"
1,1,2,2-tetrachloroethane	ND	2	"	"	"	"	"

Dibromofluoromethane [surr]	*104%*	(70 - 130)	"	"	"	"
1,2-Dichloroethane-d4 [surr]	*117%*	(69 - 132)	"	"	"	"
Toluene-d8 [surr]	*114%*	(81 - 121)	"	"	"	"
Bromofluorobenzene [surr]	*109%*	(83 - 121)	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	A
N-Nitrosodimethylamine	ND	67	ug/kg (dry)	1	AK61314	11/13/06	11/13/06	
bis(2-chloroethyl)ether	ND	67	"	"	"	"	"	
phenol	ND	130	"	"	"	"	"	
2-chlorophenol	ND	130	"	"	"	"	"	
1,3-dichlorobenzene	ND	67	"	"	"	"	"	
1,4-dichlorobenzene	ND	67	"	"	"	"	"	
1,2-dichlorobenzene	ND	67	"	"	"	"	"	
benzyl alcohol	ND	67	"	"	"	"	"	
bis(2-chloroisopropyl)ether	ND	67	"	"	"	"	"	
2-methylphenol	ND	67	"	"	"	"	"	
hexachloroethane	ND	67	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	67	"	"	"	"	"	

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 6K09019
DUE DATE

PAGE 1 OF 1

ARE SPECIAL DETECTION LIMITS REQUIRED: YES (NO)
If yes please attach requirements.

Is a QC Package required: YES (NO)
If yes please attach requirements

REPORT TO: Jeff Stark / NF
CONTACT: Jeff
PH #: 716-284-0431
FAX #: 716-285-4201
BILL TO: E916
P.O.#
PROJECT DESCRIPTION: BF Stockpile
SAMPLER SIGNATURE:
SAMPLE I.D.

DW DRINKING WATER, GW GROUND WATER, SW SURFACE WATER, WW WASTE WATER, O OIL, SL SLUDGE, SO SOIL, S SOLID, W WIPE, OTHER

TURN AROUND TIME: ASAP BD on Stockpile. BD on all else Asap per D. Vollmer

QUOTATION NUMBER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	TAL	TCL	Full TCL	RCRA Char	PCB (Total)						TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	BF-Nside-110906	11/9/06	1345	SO	4	X	X									2x4, 2x4	01
2	BF-Wside-110906		1355	SO	4	X	X										02
3	BF-Sside-110906		1405	SO	4	X	X										03
4	BF-Eside-110906		1415	SO	4	X	X										04
5	BF Stockpile #1-110906		1420	SO	4			X	X	X						1	05
6	BF-Bldg 9,10-110906	↓	1430	S	1	X				X						1x Bag	06
7																	
8																	
9																	
10																	

REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
	11 19 06	1555	Kris Foster	11 9 06	3:55 PM
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY:	DATE: / /	TIME:

WASTESTREAM TECHNOLOGY
302 Grote St
Buffalo, NY 14207
Ph:716 876 5290
Fx:716 876 2412
www.wastestream.com

element DATASYSTEM

Results for 6L13014-01 Search Work Order Log Out 01 >

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/21/06 13:31

BF-BLDG 10 Pit-121306
6L13014-01 (Soil)
Waste Stream Technology Inc.

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Mercury	ND	0.001	mg/L	1	AL61907	12/19/06	12/19/06	EPA 7470A-TCLP	
Silver	ND	0.025	"	5	AL61916	"	"	6010B	
Arsenic	ND	0.045	"	"	"	"	"	"	
Barium	**0.357**	0.025	"	"	"	"	"	"	
Cadmium	ND	0.025	"	"	"	"	"	"	
Chromium	ND	0.025	"	"	"	"	"	"	
Lead	ND	0.075	"	"	"	"	"	"	
Selenium	ND	0.095	"	"	"	"	"	"	

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
vinyl chloride	ND	10	ug/l	1	AL61519	12/15/06	12/15/06	8260-TCLP	
1,1-dichloroethene	ND	10	"	"	"	"	"	"	
2-butanone	ND	100	"	"	"	"	"	"	
chloroform	ND	10	"	"	"	"	"	"	
carbon tetrachloride	ND	10	"	"	"	"	"	"	
benzene	ND	10	"	"	"	"	"	"	
1,2-dichloroethane	ND	10	"	"	"	"	"	"	
trichloroethene	ND	10	"	"	"	"	"	"	
tetrachloroethene	ND	10	"	"	"	"	"	"	
chlorobenzene	ND	10	"	"	"	"	"	"	
1,4-dichlorobenzene	ND	10	"	"	"	"	"	"	
Dibromofluoromethane [surr]	*101%*	(75 - 125)		"	"	"	"	"	
1,2-Dichloroethane-d4 [surr]	*104%*	(66 - 128)		"	"	"	"	"	
Toluene-d8 [surr]	*93.3%*	(81 - 118)		"	"	"	"	"	
Bromofluorobenzene [surr]	*98.0%*	(85 - 123)		"	"	"	"	"	

TCLP Pesticides by EPA Method 1311/8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Gamma-BHC (Lindane)	ND	0.040	ug/l	1	AL61913	12/19/06	12/20/06	EPA 8081A	
Heptachlor	ND	0.040	"	"	"	"	"	"	
Heptachlor Epoxide	ND	0.040	"	"	"	"	"	"	
Endrin	ND	0.040	"	"	"	"	"	"	
Methoxychlor	ND	0.040	"	"	"	"	"	"	
Chlordane	ND	0.800	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

Tetrachloro-meta-xylene [surr]	*97.0%*	(55 - 135)	"	"	"	"	"	
Decachlorobiphenyl [surr]	*90.5%*	(58 - 130)	"	"	"	"	"	

TCLP Herbicides by EPA Method 1311/8151A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
2,4-D	ND	20.0	ug/l	50	AL61934	12/19/06	12/21/06	8151	
2,4,5-TP (Silvex)	ND	20.0	"	"	"	"	"	"	
2,4-DCPAA [surr]	*92.0%*	(24 - 146)		"	"	"	"	"	

TCLP Semivolatile Organic Compounds by EPA Method 1311/8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
pyridine	ND	8	ug/l	1	AL61914	12/19/06	12/19/06	8270C-TCLP	
1,4-dichlorobenzene	ND	8	"	"	"	"	"	"	
Total cresols (o,m & p)	ND	24	"	"	"	"	"	"	
hexachloroethane	ND	8	"	"	"	"	"	"	
nitrobenzene	ND	8	"	"	"	"	"	"	
hexachlorobutadiene	ND	8	"	"	"	"	"	"	
2,4,6-trichlorophenol	ND	16	"	"	"	"	"	"	
2,4,5-trichlorophenol	ND	8	"	"	"	"	"	"	
2,4-dinitrotoluene	ND	8	"	"	"	"	"	"	
hexachlorobenzene	ND	8	"	"	"	"	"	"	
pentachlorophenol	ND	16	"	"	"	"	"	"	
2-Fluorophenol [surr]	*29.4%*	(22 - 57)		"	"	"	"	"	
Phenol-d6 [surr]	*18.0%*	(15 - 38)		"	"	"	"	"	
Nitrobenzene-d5 [surr]	*67.2%*	(45 - 106)		"	"	"	"	"	
2-Fluorobiphenyl [surr]	*74.0%*	(45 - 105)		"	"	"	"	"	
2,4,6-Tribromophenol [surr]	*72.9%*	(45 - 119)		"	"	"	"	"	
Terphenyl-d14 [surr]	*99.8%*	(31 - 127)		"	"	"	"	"	

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
pH	**8.41**	0.10	pH Units	1	AL61931	12/18/06	12/18/06	EPA 9045C	
% Solids	**82.9**	0.1	%	"	AL61901	"	12/19/06	% calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Ignitability by Flashpoint	**>200**		deg F	1	AL61517	12/15/06	12/15/06	EPA 1010	
Reactive Cyanide	ND	40.0	mg/kg	"	AL61930	"	12/19/06	Section 7.3.3.2	
Reactive Sulfide	**40.1**	40.0	"	"	AL61929	"	"	Section 7.3.4.2	

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302 Grote St
Buffalo, NY 14207
Ph:716 876 5290
Fx:716 876 2412
www.wastestream.com

Results for 6L13014-01RE1

Search | Work Order | Log Out | 01RE1

Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302

Project: Buffalo Forge
Project Number: Buffalo Forge E916
Project Manager: Jeff Shirley

Reported:
12/21/06 13:35

BF-BLDG 10 Pit-121306
6L13014-01RE1 (Soil)
Waste Stream Technology Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Analysis	Notes
Aroclor 1016	ND	6.60	ug/kg (dry)	2	AL61813	12/18/06	12/19/06	8082	
Aroclor 1221	ND	6.60	"	"	"	"	"	"	
Aroclor 1232	ND	6.60	"	"	"	"	"	"	
Aroclor 1242	**51.0**	6.60	"	"	"	"	"	"	
Aroclor 1248	ND	6.60	"	"	"	"	"	"	
Aroclor 1254	**26.7**	6.60	"	"	"	"	"	"	
Aroclor 1260	**25.0**	6.60	"	"	"	"	"	"	
Tetrachloro-meta-xylene [surr]	*126%*	(61 - 140)		"	"	"	"	"	
Decachlorobiphenyl [surr]	*89 0%*	(56 - 136)		"	"	"	"	"	

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APPENDIX D

CD-ROM Containing Laboratory Analytical Reports for PCB Concrete and Soil Samples