

3 February 2006

Mr. Gregory B. MacLean, P.E.  
Environmental Engineer 2  
New York State Department of Environmental Conservation  
Division of Environmental Remediation - Region 8  
6274 East Avon-Lima Road  
Avon, New York 14414



RE: B2SA Final Engineering Report  
755 Jefferson Road Facility - Henrietta, New York  
NYSDEC VCP Number V00126-8  
ERM Project Number 0016744

Dear Mr. MacLean:

Please find enclosed two copies of the Final Engineering Report (FER) documenting the successful remediation of the Building #2 Sump Area (B2SA) at the UCB Manufacturing, Inc. (UCB) facility located at 755 Jefferson Road in the Town of Henrietta, Monroe County, New York (the Site). Environmental Resources Management (ERM) is submitting this B2SA FER to the New York State Department of Environmental Conservation (NYSDEC) on behalf of UCB for review and approval as outlined in the Voluntary Cleanup Agreement for the Site and the associated Remedial Action Work Plan.

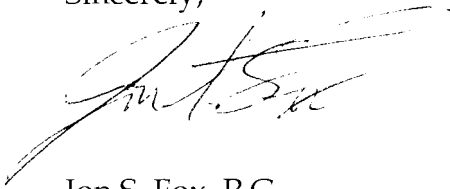
As originally outlined in our e-mail correspondence to NYSDEC dated 17 January 2006 and as subsequently agreed during our teleconference on 24 January 2006, ERM is preparing a report documenting the NYSDEC-recommended additional soil removal and associated sampling efforts recently performed in the vicinity of soil boring BB2-14. This upcoming report is designated as Appendix B of the B2SA FER. ERM anticipates that Appendix B will be submitted to NYSDEC during the month of February 2006.

Mr. Gregory B. MacLean, P.E.  
NYSDEC VCP Number V00126-8  
ERM Project Number 0016744  
3 February 2006  
Page 2

Environmental  
Resources  
Management

Thank you for your assistance. Please contact me at 315-445-2554 or jon.fox@erm.com if you have any questions or comments regarding the enclosed FER.

Sincerely,

A handwritten signature in black ink, appearing to read "Jon S. Fox". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jon S. Fox, P.G.  
Senior Project Manager

Enclosure

Cc: Mr. Joseph Albert (MCDOH)  
Ms. Charlotte Bethoney (NYSDOH)  
Mr. Edward Hinchey, P.G. (ERM)  
Mr. Jeffrey Hohman (UCB)  
Mr. Bart Putzig, P.E. (NYSDEC)  
Mr. Joseph Ryan, Esq. (NYSDEC)  
Mr. Richard Wohaska, P.E. (ERM)

**Building #2 Sump Area  
Final Engineering Report  
755 Jefferson Road Facility  
Henrietta, New York**  
*Voluntary Cleanup Program  
Number V00126-8*

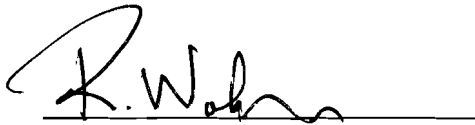
February 2006

ERM Project Number 0016744

**ENVIRONMENTAL RESOURCES MANAGEMENT**  
5788 Widewaters Parkway  
Dewitt, New York 13214

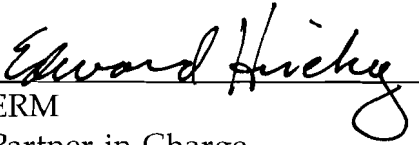
**B2SA FINAL ENGINEERING REPORT  
JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
NYSDEC VCP NUMBER V00126-8**

I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed substantially in accordance with the Department-approved Remedial Action Work Plan.



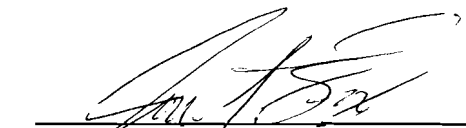
ERM  
Senior Project Engineer  
Richard Wohaska, P.E.

Date 3/27/06



ERM  
Partner-in-Charge  
Ed Hinchey, P.G.

Date 27 March 2006



ERM  
Senior Project Manager  
Jon S. Fox, P.G.

Date 27-Mar-06

## TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS	iv
EXECUTIVE SUMMARY	ES-1
1.0 SUMMARY OF THE APPROVED REMEDY	1-1
2.0 SUMMARY OF THE REMEDIAL ACTION	2-1
2.1 REMEDIAL SOIL EXCAVATION	2-1
2.1.1 Site Preparation	2-1
2.1.2 Structural Excavation Controls	2-2
2.1.3 Sump and Soil Removal	2-4
2.1.4 Management of Water	2-4
2.1.5 Confirmation Soil Sampling	2-5
2.1.6 Backfilling	2-6
2.2 PROBLEMS ENCOUNTERED AND RESOLUTIONS	2-6
2.2.1 Modification to Excavation Controls	2-6
2.3 WASTE STREAMS	2-7
2.3.1 Soil	2-7
2.3.2 Water	2-7
2.3.3 Construction Debris	2-8
2.3.4 Personal Protective Equipment	2-8
3.0 ATTAINMENT OF REMEDIATION OBJECTIVES	3-1
3.1 INORGANICS	3-1
3.2 VOLATILE ORGANIC COMPOUNDS	3-2
3.3 SEMIVOLATILE ORGANIC COMPOUNDS	3-2
4.0 RESTORATION ACTIVITIES	4-1
5.0 ENGINEERING OR INSTITUTIONAL CONTROLS REQUIRED	5-1
6.0 REFERENCES CITED	6-1

## LIST OF FIGURES

1	Site Location Map
2	Site Layout Map and B2SA Location
3	Extent of Remedial Soil Excavation and Confirmation Soil Sample Locations
4	Cross Sectional View - B2SA Soil Excavation

## LIST OF TABLES

- 1 *Summary Of Characterization Samples*
- 2 *Summary Of Laboratory Analytical Data - Backfill*
- 3 *Summary Of Soil Samples*
- 4 *Summary Of Laboratory Analytical Data - Inorganics In Soil*
- 5 *Summary Of Laboratory Analytical Data - Organics In Soil.*
- 6 *Summary Of Laboratory Analytical Data - Solid Wastes*
- 7 *Summary Of Laboratory Analytical Data - Water*

## APPENDICIES

- A *PRE-REMEDATION DATA SUMMARY*
- B *LETTER REPORT ON BB2-14 SOIL REMOVAL ACTION*
- C *TECHNICAL SUBMITTALS*
- D *RECORD ("AS-BUILT") DRAWINGS*
- E *SOURCE AND QUANTITY OF FILL MATERIALS*
- F *LABORATORY ANALYTICAL REPORTS*
- G *NYSDEC AND MCDES APPROVAL CORRESPONDENCE*
- H *DATA USABILITY SUMMARY REPORT*
- I *NON-HAZARDOUS WASTE MANIFESTS*

## ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-Containing Material
ASTM	American Society for Testing and Materials
ASP	Analytical Services Protocol
B2SA	Building #2 Sump Area
bfs	below floor surface
CAMP	Community Air Monitoring Program
CRWP	Consolidated Remediation Work Plan
DUSR	Data Usability Summary Report
ERM	Environmental Resources Management
eV	Electron Volt
FER	Final Engineering Report
FID	Flame Ionization Detector
gpm	gallons per minute
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
Hp	Horsepower
HVAC	Heating, Ventilation, and Air Conditioning
IBS	Inorganic Background Study
MCDES	Monroe County Department of Environmental Services
MCDOH	Monroe County Department of Health
mg/kg	milligrams per kilogram (parts per million)
mg/l	milligrams per liter (parts per million)
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDEL	New York State Department of Labor
NYS DOT	New York State Department of Transportation
O&M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
POTW	Public-Owned Treatment Works
ppb	parts per billion
ppm	parts per million
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan
RAS	Remedial Action Selection
RAWP	Remedial Action Work Plan
RSCO	Recommended Soil Cleanup Objective
SCG	Standards, Criteria, and Guidance
SVOC	Semivolatile Organic Compound
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target Analyte List
TCL	Target Compound List
TPH	Total Petroleum Hydrocarbons
UCB	UCB Manufacturing, Inc. (the Volunteer)

μg/kg      micrograms per kilogram (parts per billion)  
μg/l      micrograms per liter (parts per billion)  
USEPA    United States Environmental Protection Agency  
VCA      Voluntary Cleanup Agreement  
VCP      Voluntary Cleanup Program  
VOC      Volatile Organic Compound



## *EXECUTIVE SUMMARY*

According to a Voluntary Cleanup Agreement (VCA) between UCB Manufacturing, Inc. (UCB or the Volunteer) and the New York State Department of Environmental Conservation (NYSDEC), Environmental Resources Management (ERM) excavated inorganic-affected soil located beneath the basement floor slab in the Building #2 Sump Area (B2SA) at the 755 Jefferson Road Facility located in the Town of Henrietta, Monroe County, New York (the Site). Affected soil was excavated in substantial conformance with the Remedial Action Work Plan (RAWP) approved by the New York State Department of Environmental Conservation (NYSDEC) on 19 December 2002. This report summarizes remedial actions completed in the B2SA.

Extensive remedial preparations were required to complete the NYSDEC-approved soil remediation in the B2SA, including the installation of excavation controls around a deep sump to protect the structural integrity of Building #2. Monitoring of building structural components indicated that the excavation controls were successful in protecting the building from damage or subsidence. A total of 101.96-tons of affected soil was excavated in Room 24 and disposed off site at a NYSDEC-permitted disposal facility. Significant volumes of ground water entered the excavation and were managed on site with regulatory approval. A total of 34,500 gallons of water were temporarily staged on the Site prior to onsite discharge to local sanitary sewer with the approval of the local authority having jurisdiction (the Monroe County Department of Environmental Services or MCDES).

A confirmation soil sampling program was implemented to evaluate the effectiveness of the B2SA soil remediation. Laboratory analytical results from confirmation soil samples demonstrate that the remediation successfully removed the existing contaminated soil and achieved applicable standards, criteria, and guidance for unrestricted use established in the VCA and the NYSDEC-approved RAWP. Therefore, engineering or institutional controls are not required in the B2SA.

Following backfilling of the excavation areas, the concrete pad floor was restored to its pre-existing condition. Mechanical and electrical equipment will be restored to bring the B2SA back to its pre-existing condition.

**SUMMARY OF THE APPROVED REMEDY**

Environmental Resources Management (ERM) performed investigation and remediation at the UCB Manufacturing, Inc. (UCB or the Volunteer) facility located at 755 Jefferson Road in the Town of Henrietta, Monroe County, New York (the Site). A map showing the location of the Site is presented in Figure 1. UCB's predecessor entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) in March 1998. As part of the VCA, the Volunteer agreed to remediate inorganic-affected soil located proximal to a sump located in Room 24 of Building #2. This area was designated the Building #2 Sump Area (B2SA). A map showing the location of the B2SA is presented in Figure 2. The Volunteer identified the future contemplated use for the B2SA as unrestricted.

Several rounds of environmental investigation performed between 1996 and 2002 documented that a number of inorganic elements of potential concern were present in soil around the Room 24 sump. The environmental investigations were primarily used for the development and refinement of a proposed remedial approach for the B2SA. Analytical data from all environmental investigation activities performed in the B2SA are summarized in Appendix A. Several volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) were also detected in some B2SA soil samples. However, additional investigation showed that the VOCs and SVOCs detected were either common environmental laboratory contaminants or were associated with bituminous waterproofing material used in the construction and maintenance of Building #2 and were not associated with Site operations.

An Inorganic Background Study (IBS), using NYSDEC-approved sample locations, was implemented to develop Site-specific Recommended Soil Cleanup Objectives (RSCOs) that were approved by NYSDEC (NYSDEC, 2002a). The proposed remedial approach was excavation of affected soil and off-site disposal. The proposed remedial approach was presented to NYSDEC in the Consolidated Remediation Work Plan (CRWP) dated April 2002 (ERM, 2002a).

NYSDEC responded to the CRWP with several technical comments requesting additional data and information. In response to these comments, the Volunteer and ERM prepared the B2SA Remedial Design Investigation (RDI) Work Plan dated June 2002 (ERM, 2002b) and subsequently performed several additional investigations in the B2SA with the approval of NYSDEC. NYSDEC approved a Remedial Action

Work Plan (RAWP) for the Site in correspondence dated 19 December 2002 (NYSDEC, 2002b). The results of remedial design investigations in the B2SA, as well as several refinements to the proposed remedial approach, were presented to NYSDEC in the B2SA RDI Report dated June 2004 (ERM, 2004) and were supplemented with the Addendum to the B2SA RDI Report dated July 2005 (ERM, 2005).

The following NYSDEC-approved documents are relevant to the remediation of the B2SA and are contained in the original NYSDEC-approved RAWP (NYSDEC, 2002) or were subsequently added by NYSDEC to the RAWP through implementation of the B2SA RDI Work Plan (ERM, 2002b):

- the CRWP;
- the B2SA RDI Work Plan;
- the Remedial Action Selection (RAS) Report dated October 2002 (ERM, 2002c);
- the B2SA RDI Report; and
- the Addendum to the B2SA RDI Report.

As outlined in the above-referenced documents, the NYSDEC-approved remedial approach in the B2SA consisted of seven major components:

1. work area preparations;
2. installation of excavation controls to protect the building's structural integrity;
3. removal of the Room 24 sump and surrounding affected soil;
4. management of any waters encountered during excavation activities;
5. confirmation soil sampling and laboratory analyses;
6. backfilling of the excavated area with approved "clean" materials; and
7. restoration of the work area to its pre-existing condition.

When NYSDEC approved the B2SA RDI Report in correspondence dated 26 July 2005 (NYSDEC, 2005), it recommended that a focused additional soil removal and confirmation sampling program be carried out in the vicinity of boring BB2-14. Soil removal and additional sampling was subsequently performed in this area. A report summarizing the results of this additional remedial effort is presented in Appendix B.

Health and safety considerations were an important part of the NYSDEC-approved RAWP. Air monitoring for VOCs and aerosols were proposed

during soil excavation activities in accordance with the NYSDEC-approved Health & Safety Plan (HASP; Appendix G of CRWP). ERM proposed a Community Air Monitoring Plan (CAMP) in accordance with NYSDEC- and New York State Department of Health (NYSDOH)-approved guidance and procedures.

Subsequent sections of this Final Engineering Report (FER) summarize the work performed during the remedial action in the B2SA and document that the remediation of the B2SA achieved the area-specific goals contemplated in the VCA and outlined in the NYSDEC-approved RAWP.

## 2.0

### ***SUMMARY OF THE REMEDIAL ACTION***

A map showing the extent of the remedial soil excavation, the locations of confirmation soil samples, and other selected Site features is presented in Figure 3. A cross section showing the vertical extent of the remedial soil excavation is presented in Figure 4. Remediation work in the B2SA was performed in conformance to the requirements contained in the NYSDEC-approved RAWP, including the HASP and the Quality Assurance Project Plan (QAPP). ERM facilitated compliance with the Volunteer's safe work procedures, NYSDEC, NYSDOH, and New York State Department of Labor (NYSDOL) requirements, Occupational Safety and Health Administration (OSHA) requirements, appropriate materials specifications, excavation control installation procedures, and other applicable requirements typically applied to remedial construction projects through implementation of a thorough administrative and technical submittals review and approval process. Copies of selected technical submittals approved for the B2SA remediation are presented in Appendix C. Air monitoring for VOCs and aerosols, including implementation of the CAMP, was performed during intrusive activities in accordance with the NYSDEC-approved Site-specific HASP (ERM, 2002a).

## 2.1

### ***REMEDIAL SOIL EXCAVATION***

### 2.1.1

#### ***Site Preparation***

Site preparation activities were performed in August 2005. Mechanical and electrical equipment in the work area were removed including plumbing and electrical connections to the Room 24 sump. Potential dust migration pathways into or out of Room 24 (e.g., doorways, duct openings, etc.) were isolated from the remainder of the building with plastic sheeting. The NYSDEC-approved extent of the remedial soil excavation as shown in the RAWP (Figure 3) was measured onto the concrete floor and marked. UCB personnel identified, located, and marked the location of subsurface utilities in the work area. Two elevated concrete pads that previously housed mechanical equipment and the heating, ventilation, and air conditioning (HVAC) system were demolished and removed to allow installation of excavation controls necessary for protection of the structural integrity of the building. Relevant portions of the concrete floor were saw cut where necessary (after installation of the west wall brace; see Section 2.1.2) to provide access to the Room 24 sump and adjacent soil.

A portion of the chain-link fence and selected mechanical equipment inside the chain-link fenced area on the west side of Building #2 was removed to allow unfettered access to the Room 24 work area. An electric conveyor system was temporarily installed to transport concrete debris (and later excavated soil) from Room 24 through an opening in the wall to the ground surface at the west side of Building #2. Debris and excavated soil were transported with a backhoe from the west side of Building #2 to roll-off waste containers located on the south side of Building #2. Two large steel containers (one 10,000 gallon and one 21,000 gallon capacity) were located on the south side of Building #2 for temporary storage of liquids generated during anticipated excavation de-watering activities.

### 2.1.2 *Structural Excavation Controls*

Structural excavation controls designed by Mr. Richard J. Hartman, P.E., a New York-licensed Professional Engineer (License #045060), were installed in the deep excavation area to allow the removal of the Room 24 sump and excavation of affected soil while protecting the structural integrity of the building. The excavation controls were designed to allow a maximum excavation depth of 14 feet in the area shown in Figures 3 and 4 as indicated in the RAWP. General plans, notes, material specifications, detailed construction sequence, bracing plans, and other details used in the B2SA remedial construction are presented in record ("As-Built") drawings provided by Hartman Engineering (Appendix D). Installation of excavation controls was not required in the shallow excavation area per Hartman Engineering.

An elevation monitoring system was set up by Hartman Engineering to monitor for potential subsidence of the building. The monitoring system consisted of eight monitoring points in the west wall approximately 18 inches above the floor and two segments of surveying rod tape fastened to columns at the north and south ends of the wall. Two benchmark tapes were also fastened to columns outside the B2SA. A steel brace (W14x74, 18-feet long) with two associated steel struts (W10x49, 10-feet long) was installed and anchored to the floor inside Room 24 to support the west wall. American Society for Testing and Materials (ASTM) Grade A36 structural steel was used for all excavation controls installed in the B2SA. The concrete floor within the excavation area was subsequently saw-cut and removed to provide access to fill and soil around the sump.

Additional excavation controls were not installed until the deep remedial soil excavation reached a depth of 5-feet below floor surface (bfs). The two upper sets of wales were emplaced at approximately 2-feet and 4-feet

bfs. Each wale set was constructed using two W8x24 ( $\pm 7'2''$ ) and two W8x35 ( $\pm 9'5''$ ) steel wales. A total of eight soldier piles were also emplaced from 0 to 5-feet bfs using W8x24 structural steel. Weld tacks were made as necessary by a tacker qualified for the specific process and position under New York State Department of Transportation (NYSDOT) qualification standards. Timber shims were used as necessary to facilitate proper fit between the wales and soldier piles. Three-inch thick, rough-cut, mixed hardwood timber lagging was subsequently installed from 0 to 5-feet bfs with appropriate blocking to secure the lagging. Three capped polyvinyl chloride (PVC) grout pipes were emplaced between each soldier pile from zero to 5.5-feet bfs (total of 24 grout pipes). The area between the timber lagging and the excavation wall was subsequently filled with concrete.

ERM obtained approvals regarding engineering properties of backfill materials from Hartman Engineering. NYSDEC required chemical characterization of all materials proposed for use as backfill in the excavated area, including construction materials. Documentation of the source and quantities of "clean" fill materials used in the B2SA is presented in Appendix E. Table 1 presents a summary of all characterization samples collected during the B2SA remedial construction. Laboratory analytical reports for all samples collected during the B2SA remediation are presented in Appendix F. Table 2 presents a summary of laboratory analytical data from backfill characterization samples. NYSDEC approved all materials proposed for backfill based on the results summarized in Table 2 and other information provided by ERM and material suppliers, including recognizing that for certain substances (beryllium and zinc), the Site-specific background levels exceeded the previously established RSCOs. Copies of NYSDEC and other regulatory approvals for backfill materials, waste determinations, and other approvals relevant to the B2SA remedial construction Site work are presented in Appendix G.

The second phase of excavation controls was installed after the soil excavation advanced to a depth of 8-feet bfs. Soldier pile segments were installed followed by another wale set at a depth of approximately 7-feet bfs. The soldier piles and wales were plumbed and tightened. Two capped grout pipes were extended in each bay to a depth of 8.5-feet bfs. Timber lagging was installed from 5 to 8-feet bfs and the uncapped grout pipe was used to install grout between the lagging and the excavation wall.

The third phase of excavation controls was installed after the soil excavation advanced to a depth of 11-feet bfs. Soldier pile segments were installed followed by another wale set at a depth of approximately 10-feet bfs. The soldier piles and wales were plumbed and tightened. One capped grout pipe was extended in each bay to a depth of 11.5-feet bfs. Timber lagging was installed from 8 to 11-feet bfs and the uncapped grout pipe was used to install grout between the lagging and the excavation wall. Additional structural excavation controls were not required in order to reach the maximum excavation design depth of 14-feet bfs.

Hartman Engineering advised ERM that no settlement was observed at any of the elevation monitoring points. Additionally, there were no new cracks or an increase in the aperture of pre-existing cracks observed in the wall or any other portion of the B2SA. These data suggest that the design and installation of the excavation controls were effective in protecting the structural integrity of the building.

### 2.1.3 *Sump and Soil Removal*

As outlined above in Section 2.1.2, removal of the sump and soil in the deep excavation began in August 2005 and occurred concurrently with the installation of structural excavation controls. Excavation of affected soil was accomplished manually using a combination of jackhammers, picks, and shovels. Excavated soil was placed into 5-gallon buckets that were hauled to floor level using a pulley system. The excavated soil was subsequently placed onto the conveyor system and transported through the wall to a backhoe located on the west side of Building #2. The backhoe transported the excavated soil to a staging area on the south side of Building #2 and placed the soil directly into lined and covered roll-off containers. After enough soil was removed to expose a significant portion of the sump, the existing sump was cut into manageable sections using an electric saw and removed via the conveyor system.

Excavation of soil from the shallow excavation was accomplished using the same methods described above for the deep excavation, except that a pulley system was not necessary to transfer the excavated soil to the conveyor system. Soil excavation activities were completed in October 2005.

### 2.1.4 *Management of Water*

Water was encountered entering the excavation from two sources: ground water from macropores or fractures in the stiff, silty soil matrix,



and storm water from several previously unknown sub-floor drainage pipes. Water from sub-floor drainage pipes was intercepted, diverted around the excavation, and re-connected to its pre-existing piping. Ground water entering the excavation was pumped using an electric sump pump from the excavation into a 10,000-gallon capacity mobile steel container. The volume of ground water encountered was larger than anticipated and required the acquisition of a second mobile steel container with a capacity of 21,000-gallons. The second steel container was also necessary to allow waste characterization sampling of the first steel container without requiring a work stoppage while awaiting laboratory analytical results. These containers were located in the temporary staging area located on the south side of Building #2.

ERM requested permission from the Monroe County Department of Environmental Services (MCDES) and the Town of Henrietta (the Town) to discharge water from the B2SA soil excavation into the local sanitary sewer (presuming the water did not exceed applicable discharge limits or flow rates). A total of four batches of B2SA water with a total cumulative volume of 34,500 gallons were characterized and determined to be non-hazardous wastes. After submission of relevant analytical data and other information to MCDES and the Town, ERM received permission to discharge the B2SA water to the local sanitary sewer. The fourth batch of B2SA water required neutralization prior to discharge. ERM submitted a proposed neutralization procedure to MCDES. ERM's proposed neutralization procedure was approved by MCDES (Appendix G) and the fourth batch of B2SA water was treated on site and subsequently discharged to the sanitary sewer. Additional information and discussion regarding the characterization of B2SA water and other B2SA remediation waste streams is provided below in Section 2.3.

### 2.1.5 *Confirmation Soil Sampling*

Upon completion of soil removal activities, confirmation soil sampling in the deep excavation and shallow excavation was performed in accordance with Sections 6.2 through 6.4 of the CRWP as modified in the correspondence from ERM to NYSDEC dated 10 September 2002 (ERM, 2002d), which was incorporated into the NYSDEC-approved RAWP. A total of nine confirmation soil samples were collected in the B2SA at the locations show in Figure 3. Based on visual, olfactory, and field screening data collected using a calibrated flame ionization detector (FID), impacted soil was not observed after completion of excavation activities. Table 3 presents a summary of confirmation soil samples collected in the B2SA. All confirmation soil samples were submitted to a NYSDOH-approved

environmental laboratory (STL-Buffalo of Amherst, New York, (NYS Certification Number / Laboratory ID: 10026) certified in NYSDEC's Analytical Services Protocol (ASP). ERM requested ASP Category B laboratory analytical deliverables for all confirmation soil samples.

In accordance with NYSDEC requirements, validation of confirmation soil sample analytical data was performed and a Data Usability Summary Report (DUSR) was prepared for all confirmation soil samples. The DUSR for B2SA confirmation soil samples is presented in Appendix H. Table 4 presents a summary of validated laboratory analytical data for inorganic elements of potential concern. Table 5 presents a summary of validated laboratory analytical data for organic elements of potential concern. Review and interpretation of these data are discussed further in Section 3.0.

### **2.1.6 Backfilling**

As outlined above in Section 2.1.2, backfilling of the area between timber lagging and the excavation walls in the deep excavation was accomplished using a NYSDEC-approved clean grout (Appendix G). After installation of a new sump in the deep excavation (see Section 4.0), the excavated areas between the sump and the excavation controls were backfilled using a NYSDEC-approved clean flowable fill. The shallow excavation was also backfilled with NYSDEC-approved clean flowable fill. No other materials were used in backfilling operations.

## **2.2 PROBLEMS ENCOUNTERED AND RESOLUTIONS**

### **2.2.1 Modification to Excavation Controls**

Foundation plans for the Site indicated that the west wall footer for Building #2 was located approximately 1.5-feet bfs. However, the footer was actually encountered immediately below the concrete floor. Also, several sub-floor drainage pipes were uncovered immediately below the footer. These previously unknown footer drains were located within two feet of the top of the concrete basement floor surface. Due to actual locations encountered and the absence of water flow from these pipes, the design and installation of the excavation controls were modified slightly to allow these pipes to remain in place throughout the excavation process. The modification did not limit the effectiveness of the remediation as documented below in Section 3.0. Details of the modifications are presented in record documents (i.e., "as-builts") presented in Appendix D.

## 2.3 WASTE STREAMS

### 2.3.1 *Soil*

Lined roll-off containers were used to temporarily stage excavated soil at the Site. Characterization of excavated soil was conducted as required by the selected off-Site disposal facility using available laboratory analytical data supplemented through the collection of an additional composite waste characterization sample. This waste characterization sample was collected by an ERM geologist and submitted to the project laboratory (STL-Buffalo) for analysis of VOCs, SVOCs, and inorganics of potential concern; corrosivity; flashpoint; and total petroleum hydrocarbons (TPH).

Analytical results for the waste characterization sample of affected soil are summarized in Table 6. Review of Table 6 indicates that excavated soil is a non-hazardous waste. NYSDEC approved this non-hazardous waste determination for this waste (Appendix G). Therefore, excavated soil was handled and managed as a non-hazardous waste. Eight roll-off containers of affected soil were transported between 15 November and 28 November 2005 by Buffalo Fuel Corporation and disposed off Site at the Town of Tonawanda Landfill Closure in Tonawanda, Erie County, New York. All shipments of soil waste were accompanied by a non-hazardous waste manifest. Copies of non-hazardous waste manifests for excavated soil are presented in Appendix I. The total volume of soil transported from the B2SA off Site for disposal was 101.96 tons.

### 2.3.2 *Water*

Table 1 presents a summary of the four water characterization samples collected during the B2SA remediation. A summary of B2SA water laboratory analytical results is presented in Table 7. Table 7 indicates that none of the four B2SA water batches contained VOCs or inorganics of potential concern at concentrations above applicable discharge limits established by MCDES. ERM received permission from MCDES to discharge Batches 01 through 03 without treatment, as long as the discharge occurred through a facility lateral as directed by the Town to control the rate of the discharge (Appendix G). Because the measured pH of Batch 04 exceeded the applicable pH range allowable by MCDES, ERM proposed a neutralization procedure to MCDES for on-Site treatment of Batch 04 to an acceptable pH concentration. MCDES approved the neutralization procedure (Appendix G) and ERM utilized approximately 1.5-liters of muriatic acid to adjust the pH of Batch 04 to a stabilized pH of 7.86 standard units. The four batches were discharged with the approval

of UCB to the sanitary sewer through a facility lateral (i.e., a floor drain) located in Room 1078 of Building #2.

### 2.3.3 *Construction Debris*

One roll off-container of construction debris was generated during B2SA remediation activities. The construction debris included pieces of concrete floor removed to access the sub-slab soil, pieces of the metal sump, miscellaneous piping associated with the sump, and bituminous waterproofing material. The bituminous waterproofing material was collected during removal of the concrete floor slab in Room 24 and was placed with other construction debris with the approval of NYSDEC (Appendix G). The roll-off container of construction debris was transported off Site on 14 November 2005 by Buffalo Fuel Corporation and disposed at the Town of Tonawanda Landfill Closure in Tonawanda, Erie County, New York. A copy of the non-hazardous waste manifest for this waste stream is presented in Appendix I. The total mass of construction debris transported and disposed off Site was 7.11 tons.

### 2.3.4 *Personal Protective Equipment*

All solid and liquid wastes generated during the B2SA remediation were determined to be non-hazardous wastes, and NYSDEC approved these determinations (Appendix G). Therefore, personal protective equipment (PPE), sampling equipment, and other materials that came into contact with solid or liquid wastes were also disposed as non-hazardous wastes in facility dumpsters along with the facility's routine municipal wastes. This waste management approach is specified in the NYSDEC-approved RAWP for the Site.

### 3.0

## *ATTAINMENT OF REMEDIATION OBJECTIVES*

Site-specific RSCOs for inorganics, VOCs, and SVOCs of potential concern in the B2SA were presented to the NYSDEC in the B2SA RDI Work Plan (ERM, 2002b). NYSDEC modified the proposed Site-specific RSCOs and approved the B2SA RDI Work Plan in correspondence to the Volunteer dated 28 August 2002 (NYSDEC, 2002a). This correspondence from NYSDEC became part of the NYSDEC-approved RAWP as indicated in the subsequent correspondence to the Volunteer dated 19 December 2002 (NYSDEC, 2002b). Therefore, the Site-specific RSCOs contained in the RAWP were used to evaluate the effectiveness of the remediation and the attainment of remediation objectives as described and qualified below.

### 3.1

## *INORGANICS*

Prior to performance of the B2SA remediation, the following inorganics had been detected in one or more soil samples from the B2SA at concentrations above Site-specific RSCOs for unrestricted use:

- antimony;
- arsenic;
- cadmium;
- chromium;
- copper;
- lead;
- mercury;
- selenium;
- silver; and
- zinc.

Following the remediation, inorganics of potential concern, with the exception of beryllium, were not detected in any of the confirmation soil samples collected in the B2SA at concentrations above Site-specific RSCOs.

The detected concentrations of beryllium are similar to the practical quantitation limits for this element. The Site-specific RSCO for beryllium is 0.16 mg/kg or not detected. NYSDEC previously stated that detected concentrations of beryllium in B2SA soil as high as 1.1 mg/kg are not of environmental concern and are consistent with the background soil data set developed during the IBS (ERM, 2004). The results of the confirmation soil sampling program demonstrate that the B2SA soil remediation was successful and that inorganics of potential concern were not detected in post-remediation B2SA soil samples at concentrations above Site-specific

RSCOs developed for the VCA-contemplated use of the B2SA (unrestricted use).

### 3.2 *VOLATILE ORGANIC COMPOUNDS*

Prior to performance of the B2SA remediation, the following VOCs were detected in one or more soil samples from the B2SA at concentrations above Site-specific RSCOs for unrestricted use:

- acetone;
- benzene; and
- methylene chloride.

Following the remediation, VOCs of potential concern were not detected in any of the confirmation soil samples collected in the B2SA at concentrations above Site-specific RSCOs. The results of the confirmation soil sampling program demonstrate that the B2SA soil remediation was successful and that VOCs were not detected in post-remediation B2SA soil samples at concentrations above Site-specific RSCOs developed for the VCA-contemplated use of the B2SA (unrestricted use).

### 3.3 *SEMIVOLATILE ORGANIC COMPOUNDS*

Prior to performance of the B2SA soil remediation, a total of 22 SVOCs were detected in one or more soil samples from the B2SA at concentrations above Site-specific RSCOs for unrestricted use. Following the remediation, four SVOCs of potential concern were detected at concentrations above Site-specific RSCOs:

- benzo(a)anthracene;
- benzo(b)fluoranthene;
- benzo(a)pyrene; and
- chrysene.

As documented in the B2SA RDI Report (ERM, 2004), the Addendum to the B2SA RDI Report, and other correspondence referenced in these documents, these SVOCs are associated with the bituminous waterproofing material used during the construction and maintenance of Building #2 and are not associated with historic or current Site operations. Therefore, investigation or remediation of these SVOCs is not addressed in the VCA. NYSDEC has previously accepted the technical opinion that the SVOCs are derived from the bituminous material (NYSDEC, 2005). The results of the confirmation soil sampling program demonstrate that

the B2SA soil remediation was successful and that SVOCs of potential concern were not detected in post-remediation B2SA soil samples at concentrations above Site-specific RSCOs developed for the VCA-contemplated use of the B2SA (unrestricted use).

A new sump constructed of high-density polyethylene (HDPE) previously approved by the Volunteer's Engineering Department was installed in Room 24 at the same location as the removed sump. Connections were made from all pre-existing piping into the new sump. The excavated area was backfilled with clean materials that were acceptable to NYSDEC (Appendix I). The structural members of the steel excavation controls and the associated timber lagging were left in place to provide additional support during new sump installation and backfilling activities.

Following backfilling and installation of a new sump and associated piping, the concrete floor was restored to its pre-existing condition in November 2005. Ribbed, one-half inch reinforcement bar dowels (one foot long) were inserted into the existing floor approximately every one foot and left exposed approximately six inches into the excavated area. Each dowel was grouted into the existing concrete. Wire mesh was then laid approximately 2-inches above the flowable fill to provide the necessary match to pre-existing concrete reinforcement conditions. The new floor was poured and secured into the surrounding existing floor slab. Plumbing and electrical connections for the new sump were made and pre-existing mechanical equipment in the work area was re-installed. The louvers on the west wall that were removed to facilitate use of the conveyor were reinstalled.

Several major components of the pre-existing heating, ventilation, and air conditioning (HVAC) system could not be re-used due to asbestos-containing material (ACM). The removed HVAC equipment was managed and disposed in accordance with applicable regulations. Therefore, the pre-existing HVAC system will be replaced with a new system of comparable specification and performance to the old system.



***ENGINEERING OR INSTITUTIONAL CONTROLS REQUIRED***

The excavation and removal of affected soil in the B2SA was successfully completed in conformance with the NYSDEC-approved RAWP. Data and information presented and summarized in this FER demonstrate that parameters of potential concern presumably associated with Site operations have been remediated to concentrations that are less than Site-specific RSCOs or concentrations that are representative of either background or of waterproofing material that was utilized in construction of the building and its appurtenances. Therefore, engineering or institutional controls are not necessary in the B2SA.

Based on the documented success of the B2SA remediation and the lack of need for any engineering or institutional controls, ERM, on behalf of the Volunteer, respectfully requests NYSDEC approval of the B2SA remediation and issuance of an unrestricted release for the B2SA.

*REFERENCES CITED*

- ERM, 2002a. Consolidated Remediation Work Plan – 755 Jefferson Road Facility, Henrietta, New York: NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, April 2002.
- ERM, 2002b. B2SA Remedial Design Investigation Work Plan – 755 Jefferson Road Facility, Henrietta, New York: NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, June 2002.
- ERM, 2002c. Remedial Action Selection Report – 755 Jefferson Road Facility, Henrietta, New York: NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, October 2002.
- ERM, 2002d. Correspondence to NYSDEC dated 10 September 2002 regarding NYSDEC approval of the B2SA Remedial Design Investigation Work Plan. Messrs. Edward J. Hinchey, P.G. and Jon S. Fox, P.G., Environmental Resources Management, DeWitt, New York.
- ERM, 2004. Building #2 Sump Area Remedial Design Investigation Report – 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, July 2004.
- ERM, 2005. Addendum to the Building #2 Sump Area Remedial Design Investigation Report – 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, April 2005.
- NYSDEC, 1995. Determination of Soil Cleanup Objectives and Cleanup Levels. NYSDEC Division of Hazardous Waste Remediation Technical and Administrative Guidance Memorandum Number 4046, April 1995 (latest amendment 20 December 2000).
- NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations. NYSDEC Division of Water Technical and Operational Guidance Series Memorandum Number 1.1.1., June 1998 (latest amendment April 2000).

NYSDEC, 2002a. Correspondence to Celltech Manufacturing, Inc. dated 28 August 2002 regarding approval of the B2SA Remedial Design Investigation Work Plan. Mr. Greg MacLean, P.E., NYSDEC Region 8, Avon, New York.

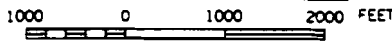
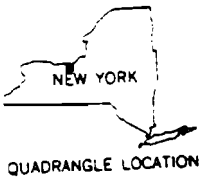
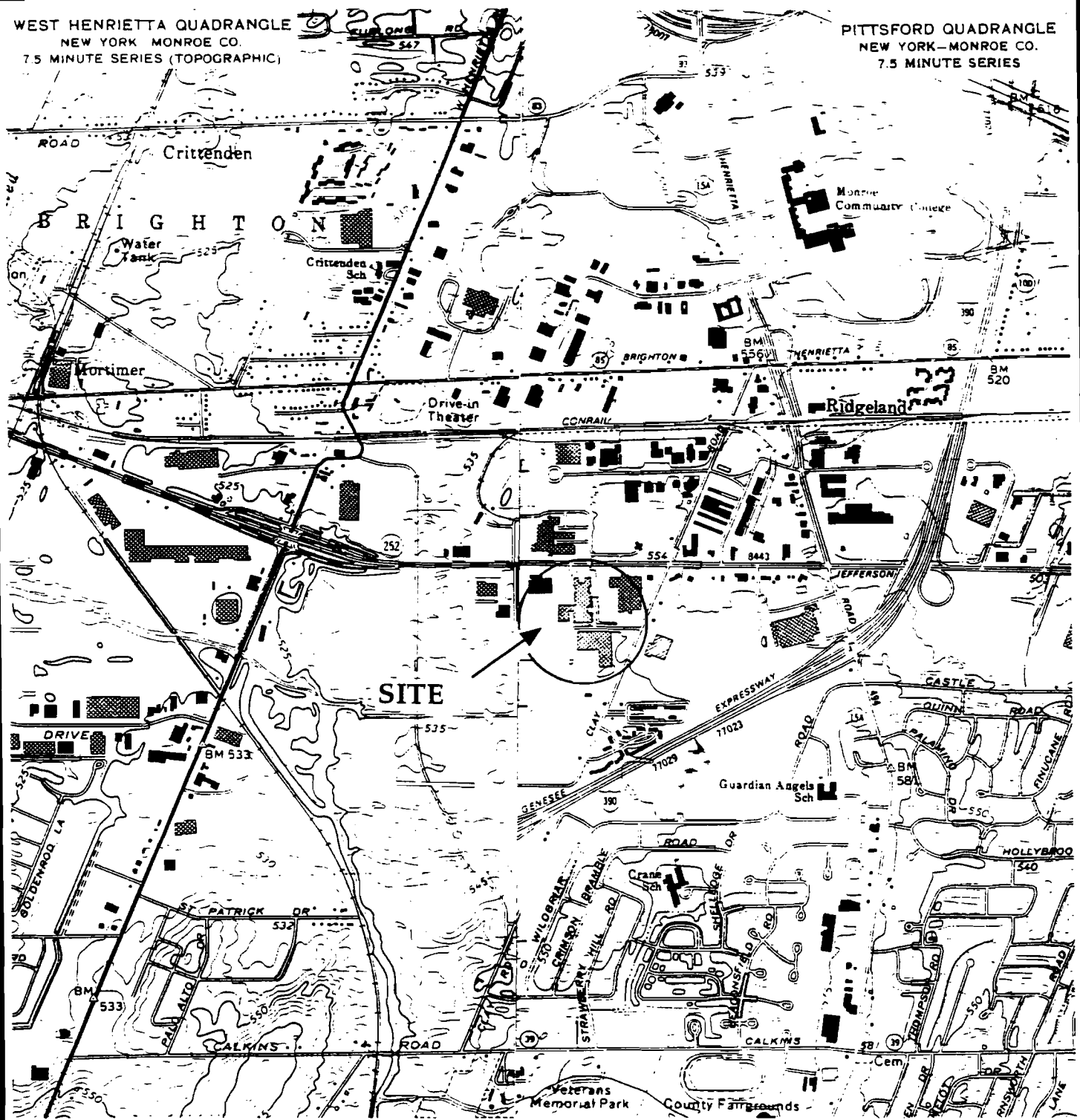
NYSDEC, 2002b. Correspondence to Celltech Manufacturing, Inc. dated 19 December 2002 regarding NYSDEC approval of the Remedial Action Work Plan for the 755 Jefferson Road Site, Henrietta, New York. Mr. Bartholomew Putzig, P.E., NYSDEC Region 8, Avon, New York.

NYSDEC, 2005. Correspondence to UCB Manufacturing, Inc. dated 26 July 2005 regarding NYSDEC approval of the Building #2 Sump Area Remedial Design Investigation Report dated July 2004 and its Addendum Report dated 5 April 2005. 755 Jefferson Road Site, Henrietta, New York. Mr. Gregory B. MacLean, P.E., NYSDEC Region 8, Avon, New York.

# *Figures*

WEST HENRIETTA QUADRANGLE  
 NEW YORK MONROE CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)

PITTSFORD QUADRANGLE  
 NEW YORK-MONROE CO.  
 7.5 MINUTE SERIES



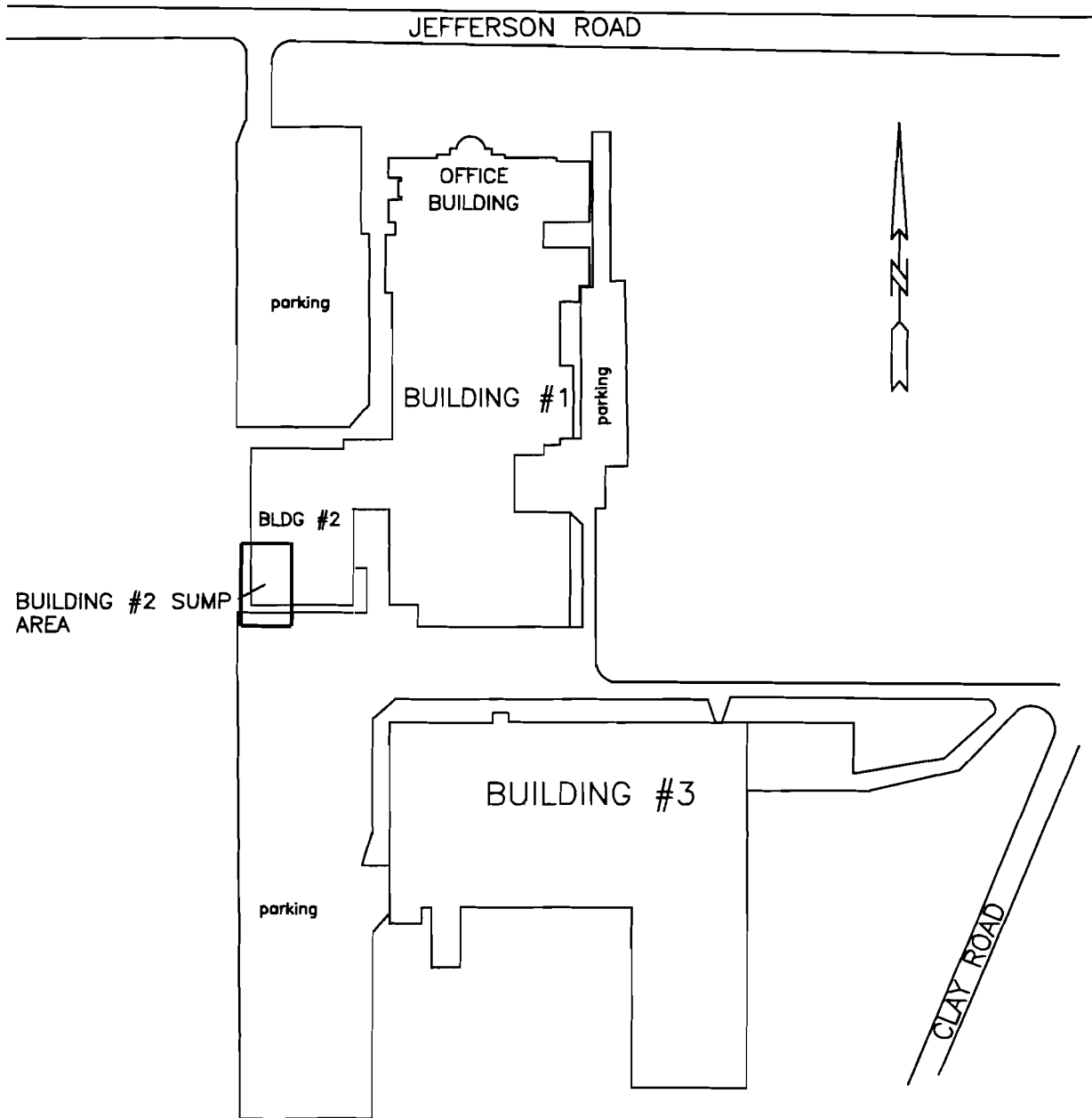
**SITE LOCATION MAP  
 JEFFERSON ROAD FACILITY  
 HENRIETTA, NY**


PREPARED FOR  
**JEFFERSON ROAD FACILITY**



SCALE NTS	FIGURE <b>1</b>
DATE 1-97	

125.000 SITE LOC.DWG

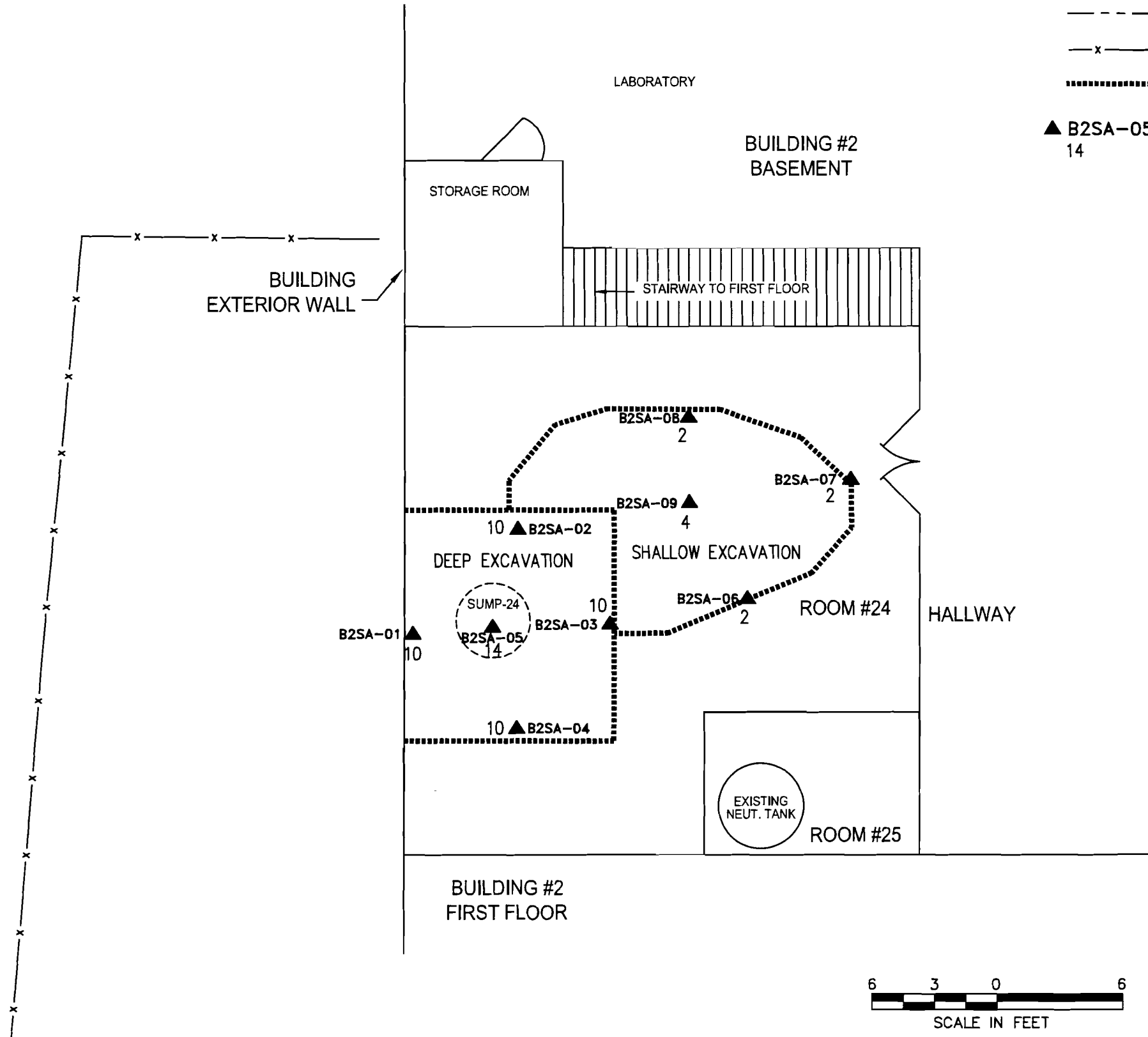


SITE LAYOUT MAP AND B2SA LOCATION 755 JEFFERSON ROAD FACILITY HENRIETTA, NEW YORK			
PREPARED FOR 755 JEFFERSON ROAD FACILITY			
 <b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE NTS	FIGURE 2	
	DATE 01-13-06		

G:\CLIENT\EVENTS\TRISON ROAD\B2SA EXECUTION DOCUMENTS\B2SA CONFIRMATION SAMPLING DOCS\FIGURES\FIG 1.DWG DATE: 01/16/2006

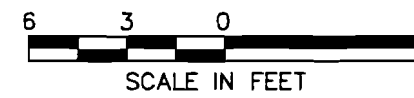


WEST PROPERTY LINE  
N 01°15'24" W



**LEGEND:**

- SURVEYED PROPERTY LINE
- x- CHAIN LINK FENCE
- ..... EXTENT OF REMEDIAL SOIL EXCAVATION
- ▲ B2SA-05  
14 CONFIRMATION SOIL SAMPLE LOCATION AND DEPTH  
(FEET BELOW FLOOR SURFACE)

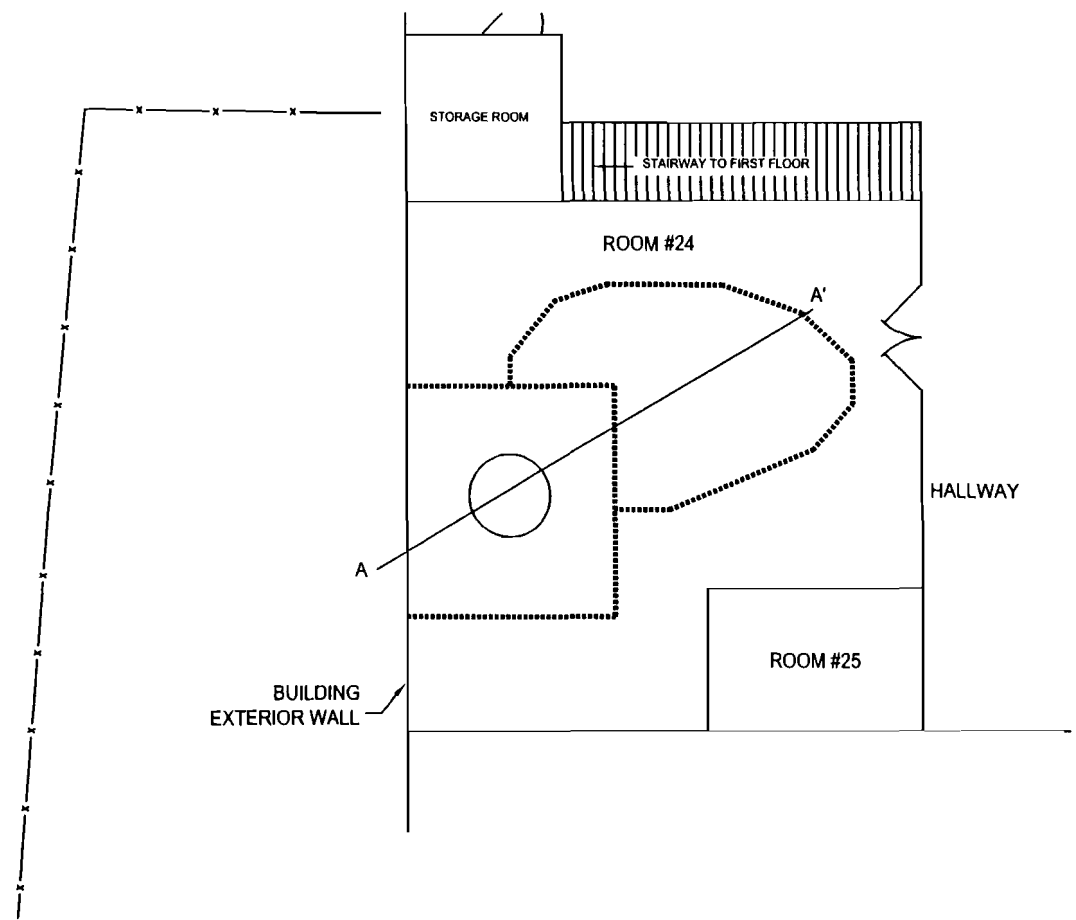


BUILDING #2 SUMP AREA EXTENT OF REMEDIAL SOIL EXCAVATION AND CONFIRMATION SOIL SAMPLES NYSDEC VCP#V00126-8		
PREPARED FOR 755 JEFFERSON ROAD FACILITY		
<b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE 1" = 6'	FIGURE 3
	DATE 01-13-06	

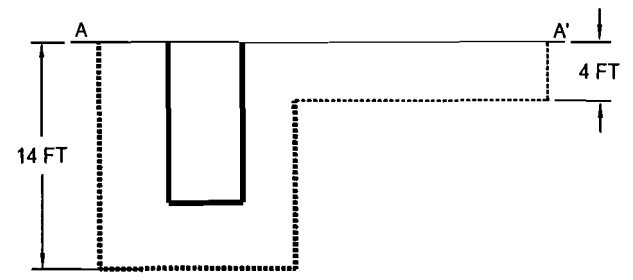
G:\CLIENTS\WENTS-JEFFERSON\RMU\B2SA EXECUTION DOCUMENTS\B2SA CONFIRMATION SAMPLING DOCS\FIGURES\F4\SEC1.DWG DATE: 01/23/2008



### MAP VIEW




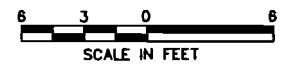
### CROSS SECTION



#### LEGEND:

- SURVEYED PROPERTY LINE
- x- CHAIN LINK FENCE
- ROOM 24 SUMP
- EXCAVATION TO 4 FEET
- ..... EXCAVATION TO 14 FEET

<b>CROSS SECTIONAL VIEW B2SA SOIL EXCAVATION</b>	
PREPARED FOR <b>755 JEFFERSON ROAD FACILITY</b>	
 <b>ERM</b> 3788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE 1" = 6'
	DATE 01-23-08
FIGURE <b>4</b>	





## *Tables*

**TABLE 1**  
**SUMMARY OF CHARACTERIZATION SAMPLES**  
**BUILDING #2 SUMP AREA REMEDIATION**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

SAMPLE IDENTIFICATION	SAMPLE DATE	VOCs	SVOCs	RCRA INORGANICS	FLASHPOINT and TPH	pH	COMMENTS
B2SA Grout Sand	9/1/05	X	X	X			Backfill - Grout Sand
B2SA Flow Sand	9/8/05	X	X	X			Backfill - Flowable Fill Sand
B2SA CONCRO	9/1/05	X	X	X	X	X	Concrete Debris Sample
B2SA SOILRO	9/1/05	X	X	X	X	X	Affected Soil Waste Sample
B2SA GW(090805)	9/8/05	X	X	X*		X	Batch 01 - Waste Water Sample
B2SA GW(092005)	9/20/05	X	X	X*		X	Batch 02 - Waste Water Sample
B2SA-GW (093005)	9/30/05	X	X	X*		X	Batch 03 - Waste Water Sample
B2SA-GW (110205)	11/2/05	X	X	X*		X	Batch 04 - Waste Water Sample

**NOTES:**

- Analytes reported include inorganics of potential concern (Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Hg, Se, Ag, Zn).
- Analytes reported are specific to the County Waste Water Treatment.
- VOCs = volatile organic compounds by USEPA Method 8260.
- SVOCs = semivolatile organic compounds by USEPA Method 8270.
- RCRA = Resource Conservation and Recovery Act.
- TPH - Total Petroleum Hydrocarbons.

TABLE 2

**SUMMARY OF LABORATORY ANALYTICAL DATA - BACKFILL  
BUILDING #2 SUMP AREA  
755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
NYSDEC VCP NUMBER V00126-8  
ERM PROJECT NUMBER 0016744**

soil boring date sampled	SITE-SPECIFIC RSCO	B2SA Grout Sand 9/1/05	B2SA Flow Sand 9/8/05
<b>VOCs (ug/kg)</b>			
acetone	27	---	---
benzene	20	---	---
methylene chloride	26	5	6
<b>SVOCs (ug/kg)</b>			
acenaphthene	22522	---	---
acenaphthylene	41000	---	---
anthracene	50000	---	---
benzo (a) anthracene	224 or MDL	---	---
benzo (b) fluoranthene	269	---	---
benzo (k) fluoranthene	269	---	---
benzo (g,h,i) perylene	50000	---	---
benzo (a) pyrene	61 or MDL	---	---
bis (2-ethylhexyl) phthalate	50000	---	34 J
carbazole	NA	---	---
chrysene	98 or MDL	---	---
dibenzo (a,h) anthracene	14 or MDL	---	---
dibenzofuran	6200	---	---
di-n-butylphthalate	8100	---	---
di-n-octylphthalate	50000	---	---
fluoranthene	50000	---	---
fluorene	50000	---	---
indeno (1,2,3-c,d) pyrene	783	---	---
2-methylnaphthalene	36400	---	---
naphthalene	13000	---	---
phenanthrene	50000	---	---
pyrene	50000	---	---
<b>INORGANICS (mg/kg)</b>			
antimony	---	---	---
arsenic	7.5	---	---
beryllium	0.16 or ND	<b>0.21</b>	<b>0.21</b>
cadmium	1.0	---	0.41
chromium	28.3	4.4	3.9
copper	26.4	15.2	9.9
iron	31,800	6280	7150
lead	28.4	7.4	4.6
mercury	0.1	---	---
selenium	2.0	---	---
silver	---	---	---
zinc	74.2	30.8	<b>118</b>

**NOTES:**

--- = not detected above the detection limit.

J = indicates an estimated value.

- RSCO = Site-specific Recommended Soil Cleanup Objective for unrestricted use.

- bold values with shading indicate a concentration above the Site-specific RSCO.

- MDL = method detection limit.

- ND = not detected.

- ug/kg = micrograms per kilogram.

- mg/kg = milligrams per kilogram.

- VOCs = volatile organic compounds by USEPA Method 8260.

- SVOCs = semivolatile organic compounds by USEPA Method 8270.

- Both samples listed above were approved for use as backfill by NYSDEC.

- analytes reported include VOCs, SVOCs, and inorganics of potential concern.

**TABLE 3  
SUMMARY OF SOIL SAMPLES  
BUILDING #2 SUMP AREA REMEDIATION  
755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
NYSDEC VCP NUMBER V00126-8  
ERM PROJECT NUMBER 0016744**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	VOCs	SVOCs	RCRA INORGANICS	COMMENTS
B2SA-01 (10)	10/11/05	10	X	X	X*	Confirmation Sample - Deep Excavation - West Wall
B2SA-02 (10)	10/11/05	10	X	X	X*	Confirmation Sample - Deep Excavation - North Wall
B2SA-03 (10)	10/11/05	10	X	X	X*	Confirmation Sample - Deep Excavation - East Wall
B2SA-04 (10)	10/11/05	10	X	X	X*	Confirmation Sample - Deep Excavation - South Wall
B2SA-05 (14)	10/19/05	14	X	X	X*	Confirmation Sample - Deep Excavation - Bottom
B2SA-06 (4)	10/27/05	4	X	X	X*	Confirmation Sample - Shallow Excavation - South Wall
B2SA-07 (4)	10/27/05	4	X	X	X*	Confirmation Sample - Shallow Excavation - East Wall
B2SA-08 (4)	10/27/05	4	X	X	X*	Confirmation Sample - Shallow Excavation - North Wall
B2SA-09 (4)	10/28/05	4	X	X	X*	Confirmation Sample - Shallow Excavation - Bottom
B2SA-MS/MSD	10/11/05	4	X	X	X*	Collected with B2SA-04 (10)
B2SA-Dupe	10/27/05	4	X	X	X*	Duplicate of B2SA-08(4)

**NOTES:**

- \* - Analytes reported include inorganics of potential concern (Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Hg, Se, Ag, Zn).
- Sample depth is reported in feet below surface at the location of the soil boring.
- VOCs = volatile organic compounds by USEPA Method 8260.
- SVOCs = semivolatile organic compounds by USEPA Method 8270.
- RCRA = Resource Conservation and Recovery Act.
- MS/MSD = additional volume collected for matrix spike/matrix spike duplicate analyses.
- Dupe = additional volume collected for duplicate analyses.

**TABLE 4**  
**SUMMARY OF LABORATORY ANALYTICAL DATA - INORGANICS IN SOIL**  
**BUILDING #2 SUMP AREA REMEDIATION**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring sample depth date sampled	SITE- SPECIFIC RSCO	B2SA-01 (10) 10 10/11/05	B2SA-02 (10) 10 10/11/05	B2SA-03 (10) 10 10/11/05	B2SA-04 (10) 10 10/11/05	B2SA-05 (14) 14 10/29/05	B2SA-06 (4) 2 10/27/05	B2SA-07 (4) 2 10/27/05	B2SA-08 (4) 2 10/27/05	B2SA-Dupe 2 10/27/05	B2SA-09 (4) 4 10/28/05
<b>INORGANICS (mg/kg)</b>											
antimony	ND	17.8 UJ	17.5 UJ	17.7 J	17.3 UJ	---	---	---	---	---	---
arsenic	7.5	2.4	---	---	2.6	3.0	---	3.3	3.3	3.2	3.0
beryllium	0.16 or ND	0.56 J	0.32 J	0.56 J	0.51 J	<b>0.4</b>	<b>0.33</b>	<b>0.59</b>	<b>0.6</b>	<b>0.55</b>	<b>0.6</b>
cadmium	1.0	0.26 J	0.23 UJ	0.24 UJ	0.27 J	---	---	0.25	0.25	0.22	---
chromium	28.3	14.0	7.8	14.0	13.2	10.6	7.6	15.3	15.9	13.9	16.2
copper	26.4	15.1	10.7	14.5	14.5	12.7	13.2	16.2	17.1	15.1	15.8
iron	31,800	16,400 J	11,100 J	15,400 J	14,900 J	12,700	9,630 J	17,100 J	17,800 J	16,000 J	17,600 J
lead	28.4	7.0 J	7.5 J	7.4 J	6.8 J	6.8 J	5.8	8.3	6.9	6.8	7.5
mercury	0.1	4.8 UJ	4.7 UJ	4.7 UJ	4.6 UJ	0.02	---	---	---	---	---
selenium	2.0	0.59 UJ	0.58 UJ	0.59 UJ	0.58 UJ	---	---	---	---	---	---
silver	ND	---	---	---	---	---	---	---	---	---	---
zinc	74.2	44.8	30.1	46.4	47.0	40.6	57.0	45.9	49.1	40.0	48.4

**NOTES:**

- = not detected above the laboratory detection limit.
- U = not detected above the laboratory detection limit.
- J = indicates an estimated value.
- RSCO = Site-specific Recommended Soil Cleanup Objective for unrestricted use.
- **bold values with shading indicate a concentration above the Site-specific RSCO.**
- ND = not detected.
- mg/kg = milligrams per kilogram.
- all sample depths are in feet below ground surface.

**TABLE 5**  
**SUMMARY OF LABORATORY ANALYTICAL DATA - ORGANICS IN SOIL**  
**BUILDING #2 SUMP AREA REMEDIATION**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring sample depth date sampled	SITE- SPECIFIC RSCO	B2SA-01 (10) 10 10/11/05	B2SA-02 (10) 10 10/11/05	B2SA-03 (10) 10 10/11/05	B2SA-04 (10) 10 10/11/05	B2SA-05 (14) 14 10/29/05	B2SA-06 (4) 4 10/27/05	B2SA-07 (4) 4 10/27/05	B2SA-08 (4) 4 10/27/05	B2SA-Dupe 8 10/27/05	B2SA-09 (4) 4 10/28/05
<b>VOCs (ug/kg)</b>											
acetone	27	---	---	---	---	---	---	---	---	---	---
benzene	20	---	---	---	---	---	---	---	---	---	---
methylene chloride	26	---	---	---	---	---	---	---	---	---	---
<b>SVOCs (ug/kg)</b>											
acenaphthene	22522	---	---	---	---	---	110 J	---	---	---	---
acenaphthylene	41000	---	---	---	---	---	---	---	---	---	---
anthracene	50000	---	---	---	---	---	160 J	---	---	---	---
benzo (a) anthracene	224 or MDL	---	---	---	---	---	590	36 J	25 J	390 UJ	---
benzo (b) fluoranthene	269	---	---	---	---	---	710	99 J	30 J	390 UJ	---
benzo (k) fluoranthene	269	---	---	---	---	---	210 J	27 J	---	---	---
benzo (g,h,i) perylene	50000	---	---	---	---	---	190 J	45 J	---	---	---
benzo (a) pyrene	61 or MDL	---	---	---	---	---	490	73 J	---	---	---
bis (2-ethylhexyl) phthalate	50000	---	86 J	---	37 J	51 J	---	---	---	---	---
carbazole	NA	---	---	---	---	---	46 J	---	---	---	---
chrysene	98 or MDL	---	---	---	---	---	540	43 J	20 J	390 UJ	---
dibenzo (a,h) anthracene	14 or MDL	---	---	---	---	---	68 J	---	---	---	---
dibenzofuran	6200	---	---	---	---	---	29 J	---	---	---	---
di-n-butylphthalate	8100	---	---	---	---	---	---	---	---	---	---
di-n-octylphthalate	50000	---	---	---	---	---	---	---	---	---	---
fluoranthene	50000	---	---	---	---	---	1200	54 J	50 J	390 UJ	---
fluorene	50000	---	---	---	---	---	92 J	---	---	---	---
indeno (1,2,3-c,d) pyrene	783	---	---	---	---	---	190 J	39 J	---	---	---
2-methylnaphthalene	36400	---	---	---	---	---	---	---	---	---	---
naphthalene	13000	---	---	---	---	---	---	---	---	---	---
phenanthrene	50000	---	---	---	---	---	400	28 J	56 J	390 UJ	---
pyrene	50000	---	---	---	---	---	930	44 J	35 J	390 UJ	---

**NOTES:**

--- = not detected above the laboratory detection limit.

U = not detected above the laboratory detection limit.

J = indicates an estimated value.

- RSCO = Site-specific Recommended Soil Cleanup Objective for unrestricted use.

- **bold values with shading indicate a concentration above the Site-specific RSCO.**

- MDL = method detection limit.

- NA = not applicable.

- ug/kg = micrograms per kilogram.

- VOCs = volatile organic compounds by USEPA Method 8260.

- SVOCs = semivolatile organic compounds by USEPA Method 8270.

- all sample depths are in feet below ground surface.

**TABLE 6**  
**SUMMARY OF LABORATORY ANALYTICAL DATA - SOLID WASTES**  
**BUILDING #2 SUMP AREA REMEDIATION**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring date sampled	REGULATORY LIMIT	B2SA CONCRO 9/1/05	B2SA SOILRO 9/1/05
<b>VOCs (ug/L)</b>			
methylene chloride	NRL	10	8 J
<b>SVOCs (ug/L)</b>			
acenaphthene	NRL	150	---
anthracene	NRL	40	---
biphenyl	NRL	16 J	---
carbazole	NRL	270	---
dibenzofuran	NRL	98	---
fluoranthene	NRL	27 J	---
fluorene	NRL	120	---
2-methylnaphthalene	NRL	88	---
naphthalene	NRL	200	---
phenanthrene	NRL	170	---
pyrene	NRL	14 J	---
<b>PCBs (mg/kg)</b>			
	NA	---	---
<b>TCLP RCRA INORGANICS (mg/L)</b>			
barium	100	0.26	1.1
cadmium	1.0	---	0.0014
lead	5.0	---	0.55
<b>Flashpoint (°F)</b>			
	NA	>200	>200
<b>Leachable pH</b>			
	NA	11	8.18
<b>Total Petroleum Hydrocarbons (mg/kg)</b>			
	NA	997	520

**NOTES:**

- = not detected above the laboratory detection limit.
- J = indicates an estimated value.
- NRL = RCRA regulatory level has not been established.
- NA = not applicable.
- ug/L = micrograms per liter.
- mg/L = milligrams per liter.
- mg/kg = milligrams per kilogram.
- pH is reported in standard units.
- VOCs = volatile organic compounds by USEPA Method 8260.
- SVOCs = semivolatile organic compounds by USEPA Method 8270.
- RCRA = Resource Conservation and Recovery Act.
- TCLP = Toxicity Characteristic Leaching Procedure.
- Sample B2SA CONCRO is a sample of concrete/ debris from B2SA remedial construction operations.
- Sample B2SA SOILRO is a sample of excavated affected soil from the B2SA.

**TABLE 7**

**SUMMARY OF LABORATORY ANALYTICAL DATA - WASTE WATER BUILDING #2 SUMP AREA REMEDIATION**

**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**

**NYSDEC VCP NUMBER V00126-8**

**ERM PROJECT NUMBER 0016744**

batch number		01	02	03	04
gallons	DISCHARGE	8,500	8,045	7,315	10,640
date sampled	LIMIT	9/8/05	9/20/05	9/30/05	11/2/05
<b>VOCs (mg/L)</b>					
acetone	20.7	---	---	---	0.027
benzene	NA	---	---	---	---
methylene chloride	2.13	---	---	---	---
<b>Acetates (mg/L)</b>					
n-amyl acetate	20.7	---	---	---	---
ethyl acetate	20.7	---	---	---	---
isopropyl acetate	20.7	---	---	---	---
<b>INORGANICS (mg/L)</b>					
antimony	1.0	---	---	---	---
arsenic	0.5	---	---	---	---
barium	2.0	---	---	---	---
cadmium	1.0	---	---	---	---
chromium	3.0	---	---	0.019	0.020
copper	3.0	---	---	---	---
iron	5.0	1.1	0.34	1.6	0.10
lead	1.0	0.023	---	---	---
mercury	0.05	---	---	---	---
selenium	2.0	---	---	---	---
silver	2.0	---	---	---	---
zinc	5.0	0.021	0.026	---	---
<b>pH</b>					
	6.0 - 9.0	8.0	8.6	7.41	11.0

**NOTES:**

- --- = not detected above the laboratory detection limit.
- NA = not applicable.
- mg/L = milligrams per liter (parts-per-million).
- pH is reported in standard units.
- VOCs = volatile organic compounds by USEPA Method 8260.
- SVOCs = semivolatile organic compounds by USEPA Method 8270.
- analytes reported include VOCs, SVOCs, and inorganics of potential concern.
- Discharge limits from facility Sewer Use Permit Enclosure and Monroe County Department of Environmental Services Sewer Use Ordinance; the limits represent a daily maximum discharge limit.



*Appendix A*

*Pre-Remediation Data Summary*

**TABLE 1**  
**SUMMARY OF PRE-REMEDATION SOIL SAMPLES**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	TCL VOCs	TCL SVOCs	RCRA OR TAL INORGANICS	TOC	COMMENTS
FISN-SUMP24	6/19/96	9.5	X	X	X		
FISN-BASE24(0.5-0.6)	6/19/96	0.5-0.6	X	X	X		
FISN-BASE25(0.5-0.8)	6/19/96	0.5-0.8	X	X	X		
MED-BB2-01(0.5-3)	10/10/96	0.5-3	X		X		
MED-BB2-02(0.8-3)	10/10/96	0.8-3	X		X		
MED-BB2-03(1-3)	10/10/96	1-3	X		X		
MED-BB2-04(1-3)	10/10/96	1-3	X		X		
MED-BB2-05 (2.5-3.0)	4/29/98	2.5-3.0	X		X		
MED-BB2-06 (2.5-3.0)	4/29/98	2.5-3.0	X		X		
MED-BB2-07 (2.5-3.0)	4/29/98	2.5-3.0	X		X		
MED-BB2-08 (2.5-3.0)	4/29/98	2.5-3.0	X		X		
MED-BB2-09 (7.3-7.8)	4/30/98	7.3-7.8	X		X		
MED-DUPE01-980429	4/30/98	NA			X		Collected with MED-BB2-05
MED-DUPE02-980429	4/30/98	NA	X				Collected with MED-BB2-06
CT-BB2-10 (9-10)	9/18/02	9-10		X	X		
CT-BB2-10 (16-17)	9/18/02	16-17		X	X		
CT-BB2-11 (5-6)	9/18/02	5-6	X	X	X	X	
CT-BB2-11 (8-9)	9/18/02	8-9	X	X	X		
CT-BB2-11 (16-17)	9/18/02	16-17	X	X	X		
CT-BB2-12 (9-10)	9/18/02	9-10		X	X		
CT-BB2-12 (16-17)	9/18/02	16-17	X	X	X		MS/MSD
CT-BB2-13 (9-10)	9/18/02	9-10		X	X		
CT-BB2-13 (16-17)	9/18/02	16-17		X	X	X	CT-DUPE(1)091802
CT-BB2-14 (0-1)	9/18/02	0-1		X	X		
CT-BB2-14 (5-7)	9/18/02	5-7	X	X	X		
CT-BB2-15 (0-1)	9/18/02	0-1		X	X		
CT-BB2-15 (5-6)	9/18/02	5-6	X				
CT-BB2-15 (6-7)	9/18/02	6-7				X	
CT-BB2-15 (8-9)	9/18/02	8-9		X	X		
CT-BB2-16 (0-2)	9/18/02	0-2		X	X		
CT-BB2-16 (6-9)	9/18/02	6-9		X	X		
CT-BB2-17 (1-2)	9/19/02	1-2		X	X		
CT-BB2-17 (3-5)	9/19/02	3-5		X	X	X	CT-DUPE(3)091902
CT-BB2-18 (1-2)	9/19/02	1-2		X	X		
CT-BB2-19 (1-2)	9/20/02	1-2		X	X		
CT-BB2-19 (4.5-5.5)	9/20/02	4.5-5.5		X	X		
CT-BB2-20 (1-2)	9/20/02	1-2		X	X		
CT-BB2-20 (3-4)	9/20/02	3-4	X				
CT-BB2-20 (4-5)	9/20/02	4-5		X	X		

(See notes at the end of the table)

**TABLE 1 (CONTINUED)**  
**SUMMARY OF PRE-REMEDIATION SOIL SAMPLES**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	TCL VOCs	TCL SVOCs	RCRA OR TAL METALS	TOC	COMMENTS
CT-BB2-21 (1-2)	9/19/02	1-2		X	X		
CT-BB2-21 (2-3)	9/19/02	2-3				X	
CT-BB2-21 (3-5)	9/19/02	3-5	X				CT-DUPE(2)091902
CT-BB2-21 (6-9)	9/19/02	6-9		X	X		MS/MSD
CT-BB2-22 (1-2)	9/19/02	1-2		X	X		
CT-BB2-22 (6.5-7.5)	9/19/02	6.5-7.5		X	X		
CT-BB2-23 (9-12)	9/23/02	9-12		X	X	X	MS/MSD
CT-BB2-23 (12-14.5)	9/23/02	12-14.5	X	X	X	X	CT-DUPE(3)092302
CT-BB2-24 (1-2)	9/20/02	1-2		X	X		
CT-BB2-24 (5-7)	9/20/02	5-7	X	X	X		
CT-BB2-25 (9-10)	9/18/02	9-10		X	X		
CT-BB2-25 (16-17)	9/18/02	16-17		X	X	X	MS/MSD
BB2-26 (2.5-3)	7/13/04	2.5-3			X*		
BB2-27 (2.5-3)	7/13/04	2.5-3			X*		
BB2-28 (2.5-3)	7/13/04	2.5-3			X*		MS & DUPE
BB2-29 (0.6-0.8)	7/13/04	0.6-0.8			X*		
BB2-30 (2.5-3)	7/13/04	2.5-3			X*		

**NOTES:**

- \* - Analytes reported include inorganics of potential concern (Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Hg, Se, Ag, Zn).
- Sample depth is reported in feet below surface at the location of the soil boring.
- TCL = USEPA Target Compound List.
- VOCs = volatile organic compounds by USEPA Method 8260.
- SVOCs = semivolatile organic compounds by USEPA Method 8270.
- RCRA = Resource Conservation and Recovery Act.
- TAL = USEPA Target Analyte List.
- TOC = total organic carbon by Lloyd Kahn method.
- MS/MSD = additional volume collected for matrix spike/matrix spike duplicate analyses.
- DUPE = additional volume collected for duplicate analyses.

**TABLE 2**  
**SUMMARY OF PRE-REMEDATION LABORATORY ANALYTICAL DATA - INORGANICS IN SOIL**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring	SITE-	SUMP24	BASE24	BASE25	BB2-01	BB2-02	BB2-03	BB2-04	BB2-05	BB2-06	BB2-07	BB2-08	BB2-09	BB2-10	BB2-10	BB2-11	BB2-11	BB2-11
sample depth	SPECIFIC	9.5	0.5-0.6	0.5-0.8	0.5-3	0.8-3	1-3	1-3	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	1-3	9-10	16-17	5-6	8-9	16-17
date sampled	RSCO	6/19/96	6/19/96	6/19/96	10/10/96	10/10/96	10/10/96	10/10/96	4/29/98	4/29/98	4/29/98	4/29/98	4/30/98	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02
<b>TAL INORGANICS (mg/Kg)</b>																		
antimony	ND	29	70	18	NS	NS	NS	NS	ND<40	ND<40	ND<40	ND<40	ND<40	ND<6.9	ND<6.8	ND<7.0	ND<6.5	ND<6.5
arsenic	7.5	5.7	ND<2	ND<2	22	7.4	6.0	21	3	2.1	2.9	3.2	3.5	2.2	2.9	3.3	2.1	4.3
beryllium	0.16 or ND	ND<1	1.1	ND<1	NS	NS	NS	NS	1.1	1.1	1.1	1	0.98	0.61	0.64	0.6	ND<.54	0.55
cadmium	1.0	4.4	4.6	ND<1	ND<1	ND<1	ND<1	ND<1	5.7	4.5	6.2	5.8	5.5	ND<.58	ND<.57	ND<.59	ND<.54	ND<.54
chromium	28.3	130	54	17	18	7.5	6.6	16	18	17	18	16	21	16.7	17.8	15.4	11	13.1
copper	26.4	3,100	1,600	31	15	22	9.8	14	14	14	14	15	10	15.6	15.7	16.6	11.8	11.4
iron	31,800	28,000	58,000	12,000	14,000	6,700	6,800	14,000	20,000	17,000	19,000	19,000	18,000	18,700	18,400	17,100	11,600	15,400
lead	28.4	530	31	9.9	13	0.7	8.1	9.5	12	12	14	16	12	6.1	7.3	8.9	9.2	5.6
mercury	0.1	24	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<.04	ND<.04	ND<.04	0.06	ND<.04
selenium	2.0	24	78	23	ND<5	ND<5	ND<5	ND<5	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1
silver	ND	3.1	3.0	2.9	1.9	ND<1	ND<1	ND<1	ND<6	ND<6	ND<6	ND<6	ND<6	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1
zinc	74.2	1,600	690	52	51	110	39	47	170	55	57	47	56	60	122	69.3	42.8	39.9

**NOTES:** - RSCO = Revised Site-specific Recommended Soil Cleanup Objective for unrestricted use

- ASP= NYSDEC Analytical Services Protocol

- yellow indicates analytical detection limit is greater than the numerical facility-specific RSCO

- pink indicates elevated analytical detection limits relative to sample set

- bold values with shading indicate a concentration above the revised Site-specific RSCO

- all sample depths are in feet below surface

- ND<1 = not detected at the reported quantitation limit

- NS = sample not analyzed for this analyte

- mg/Kg = milligrams per Kilogram

**TABLE 2 (Continued)**  
**SUMMARY OF PRE-REMEDATION LABORATORY ANALYTICAL DATA - INORGANICS IN SOIL**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring	SITE-SPECIFIC	BB2-12	BB2-12	BB2-13	BB2-13	DUPE(1)	BB2-14	BB2-14	BB2-15	BB2-15	BB2-16	BB2-16	BB2-17	BB2-17	DUPE(3)	BB2-18	BB2-19	BB2-19
sample depth	RSCO	9-10	16-17	9-10	16-17	16-17	0-1	5-7	0-1	5-6	0-2	6-9	1-2	3-5	3-5	1-2	1-2	4.5-5.5
date sampled		9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/19/02	9/19/02	9/19/02	9/19/02	9/20/02	9/20/02
<b>TAL INORGANICS (mg/Kg)</b>																		
antimony	ND	ND<6.9	ND<6.6	ND<6.9	ND<6.7	ND<6.7	ND<6.6	ND<6.7	ND<7.2	ND<6.5	ND<7.2	ND<6.3	ND<6.8	ND<6.9	ND<6.9	ND<6.7	ND<6.8	ND<6.6
arsenic	7.5	3.1	2.9	1.4	2	2.8	3.6	3.1	2.6	1.8	3.4	4.7	3.4	2.8	2.4	2.4	3.5	7.2
beryllium	0.16 or ND	0.65	0.57	ND<.58	0.61	0.60	0.64	0.68	0.67	0.55	0.69	ND<.52	0.62	ND<.58	0.61	ND<.56	0.58	ND<.55
cadmium	1.0	ND<.58	ND<.55	ND<.58	ND<.55	ND<.56	ND<.55	ND<.56	ND<.60	ND<.54	ND<.6	ND<.52	ND<.57	ND<.58	ND<.57	ND<.56	ND<.56	ND<.55
chromium	28.3	17.7	14	17.7	16.5	16.4	16.6	20.1	17.5	16.9	16.8	7.9	16.5	15.7	15.7	16.3	15.6	15.8
copper	26.4	16.3	12.7	11.6	15.2	14.8	20.2	18.6	16.7	14.8	18.5	25.4	17.2	15.1	18.1	14.8	15.1	14.4
iron	31,800	19,400	15,800	16,300	17,700	17,800	18,700	21,100	19,000	17,800	17,500	13,100	18,600	17,700	17,500	17,600	17,700	18,500
lead	28.4	7	7.4	5.7	5.8	5.9	13	7.5	6.5	6.4	15	11.2	6.0	5.7	5.9	6.7	7.1	6.1
mercury	0.1	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	0.05	ND<.03	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04
selenium	2.0	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.0	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1
silver	ND	ND<1.2	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.0	ND<1.1	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1
zinc	74.2	48.3	42.1	39.9	42.6	43.8	57.8	49	45.2	44.4	49.9	74.2	39.7	40.7	41.8	45	46.9	44.1

**NOTES:** - RSCO = Revised Site-specific Recommended Soil Cleanup Objective for unrestricted use

- ASP= NYSDEC Analytical Services Protocol

- yellow indicates analytical detection limit is greater than the numerical facility-specific RSCO

- pink indicates elevated analytical detection limits relative to sample set

- bold values with shading indicate a concentration above the revised Site-specific RSCO

- all sample depths are in feet below surface

- ND<1 = not detected at the reported quantitation limit

- NS = sample not analyzed for this analyte

- mg/Kg = milligrams per Kilogram

**TABLE 2 (Continued)**  
**SUMMARY OF PRE-REMEDATION LABORATORY ANALYTICAL DATA - INORGANICS IN SOIL**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring	SITE-SPECIFIC	BB2-20	BB2-20	BB2-21	BB2-21	BB2-22	BB2-22	BB2-23	BB2-23	DUPE(3)	BB2-24	BB2-24	BB2-25	BB2-25	BB2-26	BB2-27	BB2-28	DUPE
sample depth	RSCO	1-2	4-5	1-2	6-9	1-2	6.5-7.5	9-12	12-14.5	12-14.5	1-2	5-7	9-10	16-17	2.5-3	2.5-3	2.5-3	2.5-3
date sampled		9/20/02	9/20/02	9/19/02	9/19/02	9/19/02	9/19/02	9/23/02	9/23/02	9/23/02	9/20/02	9/20/02	9/18/02	9/18/02	7/13/04	7/13/04	7/13/04	7/13/04
<b>TAL INORGANICS (mg/Kg)</b>																		
antimony	ND	ND<7.2	ND<7.1	ND<6.8	ND<6.7	ND<7.4	ND<6.8	ND.7.2	ND<7.1	ND<7.0	ND<6.8	ND<7.2	ND<7.3	ND<6.6	ND<7.1	ND<7.2	ND<7.0	ND<7.2
arsenic	7.5	2	2.7	3.1	2.6	4.9	2.3	3.1	4	2.2	3	1.7	2.5	1.3	4.0	4.8	5.7	5.3
beryllium	0.16 or ND	<b>ND&lt;.60</b>	<b>0.60</b>	<b>0.58</b>	<b>ND&lt;.56</b>	<b>0.76</b>	<b>ND&lt;.57</b>	<b>ND&lt;.60</b>	<b>ND&lt;0.59</b>	<b>ND&lt;.59</b>	<b>0.64</b>	<b>0.63</b>	<b>0.65</b>	<b>ND&lt;.55</b>	<b>ND&lt;.59</b>	<b>ND&lt;.60</b>	<b>ND&lt;.58</b>	<b>ND&lt;.60</b>
cadmium	1.0	ND<.60	ND<.59	ND<.56	ND<.56	ND<.62	ND<.57	ND<.6	ND<0.59	ND<.59	ND<.57	ND<.60	ND<.61	ND<.55	ND<.59	ND<.60	ND<.58	ND<.60
chromium	28.3	16.7	17.8	16.9	15.5	21.2	14.6	19.2	18.6	18.1	18.6	16.1	17.9	14.3	23.0	25.0	24.2	25.8
copper	26.4	15.7	17.7	16.4	14.2	17	13.2	17.7	18	16.8	17.4	15.6	15.3	13	19.9	20.3	19.7	21.2
iron	31,800	17,900	19,000	18,300	16,800	22,100	15,600	21,500	22,400	21,200	20,500	17,000	18,200	15,400	27,700	29,900	27,500	28,800
lead	28.4	7.4	6.1	6.8	6.3	6.7	6.4	8.4	6.7	7.2	7	9.3	6.6	5.6	8.9	9.7	8.5	9.8
mercury	0.1	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04	ND<.04
selenium	2.0	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<.60	ND<.59	ND<.59	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<.59	ND<.60	ND<.58	ND<.60
silver	ND	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.2	ND<1.2	ND<1.2
zinc	74.2	49.8	45.4	44.8	47.6	50.9	45.1	50.2	51.6	46.9	47.5	42.3	41.4	38.2	55.1	68.5	58.4	61.6

**NOTES:** - RSCO = Revised Site-specific Recommended Soil Cleanup Objective for unrestricted use

- ASP= NYSDEC Analytical Services Protocol

- yellow indicates analytical detection limit is greater than the numerical facility-specific RSCO

- pink indicates elevated analytical detection limits relative to sample set

- bold values with shading indicate a concentration above the revised Site-specific RSCO

- all sample depths are in feet below surface

- ND<1 = not detected at the reported quantitation limit

- NS = sample not analyzed for this analyte

- mg/Kg = milligrams per Kilogram

**TABLE 2 (Continued)**  
**SUMMARY OF PRE-REMEDIATION LABORATORY ANALYTICAL DATA - INORGANICS IN SOIL**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring	SITE-	BB2-29	BB2-30
sample depth	SPECIFIC	0.6-0.8	2.5-3
date sampled	RSCO	7/13/04	7/13/04
<b>TAL INORGANICS (mg/Kg)</b>			
antimony	ND	ND<7.0	ND<7.4
arsenic	7.5	4.2	3.2
beryllium	0.16 or ND	ND<.59	ND<.61
cadmium	1.0	ND<.59	ND<.61
chromium	28.3	24.4	18.1
copper	26.4	20.0	16.9
iron	31,800	27,100	25,300
lead	28.4	10.0	10.3
mercury	0.1	ND<.04	ND<.04
selenium	2.0	ND<.59	ND<.61
silver	ND	ND<1.2	ND<1.2
zinc	74.2	62.1	65.5

**NOTES:** - RSCO = Revised Site-specific Recommended Soil Cleanup Objective for unrestricted use

- ASP= NYSDEC Analytical Services Protocol

- yellow indicates analytical detection limit is greater than the numerical facility-specific RSCO

- mg/Kg = milligrams per Kilogram

---- = Not detected above reporting limits

- all sample depths are in feet below surface

- ND<1 = not detected at the reported quantitation limit

- NS = sample not analyzed for this analyte

**TABLE 3**  
**SUMMARY OF PRE-REMEDATION LABORATORY ANALYTICAL DATA - VOCs AND SVOCs IN SOIL**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

soil boring	SITE-SPECIFIC	SUMP24	BASE24	BASE25	BB2-01	BB2-02	BB2-03	BB2-04	BB2-05	BB2-06	BB2-07	BB2-08
sample depth	RSCO	9.5	0.5-0.6	0.5-0.8	0.5-3	0.8-3	1-3	1-3	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0
date sampled	RSCO	6/19/96	6/19/96	6/19/96	10/10/96	10/10/96	10/10/96	10/10/96	4/29/98	4/29/98	4/29/98	4/29/98
<b>TCL VOCs (ug/Kg)</b>												
acetone	27	ND<400	ND<400	ND<40	170 B (62)	400 B (190)	ND<10	150 B (69)	ND<37.5	ND<17.2	ND<16.2	ND<16.5
benzene	20	ND<200	ND<200	640	ND<5	ND<20	ND<5	ND<5	ND<37.5	280	ND<16.2	ND<16.5
methylene chloride	26	ND<400	ND<400	ND<40	30 B (ND)	40 B (ND)	36 B (ND)	19 B (ND)	ND<37.5	ND<17.2	ND<16.2	ND<16.5
<b>TCL SVOCs (ug/Kg)</b>												
acenaphthene	22522	1400	27000	4600	NS	NS	NS	NS	NS	NS	NS	NS
acenaphthylene	41000	ND<1000	ND<20000	ND<1000	NS	NS	NS	NS	NS	NS	NS	NS
anthracene	50000	2400	30000	6500	NS	NS	NS	NS	NS	NS	NS	NS
benzo (a) anthracene	224 or MDL	3200	37000	6600	NS	NS	NS	NS	NS	NS	NS	NS
benzo (b) fluoranthene	269	3100	ND<20000	4300	NS	NS	NS	NS	NS	NS	NS	NS
benzo (k) fluoranthene	269	3200	30000	3500	NS	NS	NS	NS	NS	NS	NS	NS
benzo (g,h,i) perylene	50000	ND<1000	ND<20000	1100	NS	NS	NS	NS	NS	NS	NS	NS
benzo (a) pyrene	61 or MDL	2700	28000	4300	NS	NS	NS	NS	NS	NS	NS	NS
bis (2-ethylhexyl) phthalate	50000	ND<1000	ND<20000	ND<1000	NS	NS	NS	NS	NS	NS	NS	NS
carbazole	NA	ND<1000	ND<20000	ND<1000	NS	NS	NS	NS	NS	NS	NS	NS
chrysene	98 or MDL	3400	33000	5700	NS	NS	NS	NS	NS	NS	NS	NS
dibenzo (a,h) anthracene	14 or MDL	ND<1000	ND<20000	ND<1000	NS	NS	NS	NS	NS	NS	NS	NS
dibenzofuran	6200	ND<1000	ND<20000	3100	NS	NS	NS	NS	NS	NS	NS	NS
di-n-butylphthalate	8100	ND<1000	ND<20000	ND<1000	NS	NS	NS	NS	NS	NS	NS	NS
di-n-octylphthalate	50000	ND<1000	ND<20000	ND<1000	NS	NS	NS	NS	NS	NS	NS	NS
fluoranthene	50000	6500	84000	11000	NS	NS	NS	NS	NS	NS	NS	NS
fluorene	50000	1500	26000	4600	NS	NS	NS	NS	NS	NS	NS	NS
indeno (1,2,3-c,d) pyrene	783	ND<1000	ND<20000	1700	NS	NS	NS	NS	NS	NS	NS	NS
2-methylnaphthalene	36400	ND<1000	ND<20000	1600	NS	NS	NS	NS	NS	NS	NS	NS
naphthalene	13000	ND<1000	ND<20000	1300	NS	NS	NS	NS	NS	NS	NS	NS
phenanthrene	50000	6900	110000	15000	NS	NS	NS	NS	NS	NS	NS	NS
pyrene	50000	8800	65000	11000	NS	NS	NS	NS	NS	NS	NS	NS

**NOTES:**

- RSCO = Recommended Soil Cleanup Objective based on NYSDEC TAGM 4046
- MDL = method detection limit
- only those analytes detected in at least one sample are shown.
- bold values with pattern = concentration above the site-specific RSCO
- B = analyte detected in the method blank; blank-corrected value in parentheses
- all sample depths are in feet below surface

- ND<1 = not detected at the listed reporting limit
- NS = sample not analyzed for this analyte
- NA = not applicable or not analyzed
- EB = equipment rinse blank sample for QA/QC
- TB = trip blank water sample for QA/QC
- ug/kg = micrograms per kilogram



TABLE 5 (Continued)

SUMMARY OF PRE-REMEDIALATION LABORATORY ANALYTICAL DATA - VOCs AND SVOCs IN SOIL  
 BUILDING #2 SUMP AREA  
 755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
 NYSDEC VCP NUMBER V00126-8  
 ERM PROJECT NUMBER 0016744

soil boring sample depth date sampled	SITE- SPECIFIC RSCO	BB2-09 7.3-7.8 4/30/98	BB2-10 9-10 9/18/02	BB2-10 16-17 9/18/02	BB2-11 5-6 9/18/02	BB2-11 8-9 9/18/02	BB2-11 16-17 9/18/02	BB2-12 9-10 9/18/02	BB2-12 16-17 9/18/02	BB2-13 9-10 9/18/02	BB2-13 16-17 9/18/02	DUPE(1) 16-17 9/18/02
TCL VOCs (ug/Kg)												
acetone	27	ND<68.6	NA	NA	ND<120	ND<110	ND<120	NA	ND<23	NA	NA	NA
benzene	20	ND<68.6	NA	NA	ND<29	ND<27	ND<29	NA	ND<5.8	NA	NA	NA
methylene chloride	26	ND<68.6	NA	NA	ND<29	ND<27	ND<29	NA	ND<5.8	NA	NA	NA
TCL SVOCs (ug/Kg)												
acenaphthene	22522	NS	ND<400	ND<390	630	480	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
acenaphthylene	41000	NS	ND<400	ND<390	ND<390	ND<360	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
anthracene	50000	NS	ND<400	ND<390	390	580	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
benzo (a) anthracene	224 or MDL	NS	ND<400	ND<390	61 J	1200	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
benzo (b) fluoranthene	269	NS	ND<400	ND<390	64 J	930	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
benzo (k) fluoranthene	269	NS	ND<400	ND<390	62 J	970	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
benzo (g,h,i) perylene	50000	NS	ND<400	ND<390	80 J	780	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
benzo (a) pyrene	61 or MDL	NS	ND<400	ND<390	80 J	1100	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
bis (2-ethylhexyl) phthalate	50000	NS	ND<400	420	340 J	320 J	ND<380	ND<380	ND<380	ND<390	ND<380	330 J
carbazole	NA	NS	ND<400	ND<390	ND<390	300 J	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
chrysene	98 or MDL	NS	ND<400	ND<390	78 J	1200	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
dibenzo (a,h) anthracene	14 or MDL	NS	ND<400	ND<390	ND<390	240 J	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
dibenzofuran	6200	NS	ND<400	ND<390	ND<390	250 J	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
di-n-butylphthalate	8100	NS	ND<400	ND<390	ND<390	ND<360	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
di-n-octylphthalate	50000	NS	ND<400	ND<390	ND<390	ND<360	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
fluoranthene	50000	NS	ND<400	ND<390	160 J	2800	62 J	ND<380	ND<380	ND<390	ND<380	ND<380
fluorene	50000	NS	ND<400	ND<390	1000	560	51 J	ND<380	ND<380	ND<390	ND<380	ND<380
indeno (1,2,3-c,d) pyrene	783	NS	ND<400	ND<390	60 J	690	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
2-methylnaphthalene	36400	NS	ND<400	ND<390	590	100 J	110 J	ND<380	ND<380	ND<390	ND<380	ND<380
naphthalene	13000	NS	ND<400	ND<390	ND<390	110 J	ND<380	ND<380	ND<380	ND<390	ND<380	ND<380
phenanthrene	50000	NS	ND<400	ND<390	2000	2900	170 J	ND<380	ND<380	ND<390	ND<380	ND<380
pyrene	50000	NS	ND<400	ND<390	440	2300	57 J	ND<380	ND<380	ND<390	ND<380	ND<380

## NOTES:

- RSCO = Recommended Soil Cleanup Objective based on NYSDEC TAGM 4046
- MDL = method detection limit
- only those analytes detected in at least one sample are shown.
- bold values with pattern = concentration above the site-specific RSCO
- B = analyte detected in the method blank; blank-corrected value in parentheses
- all sample depths are in feet below surface

- ND<1 = not detected at the listed reporting limit
- NS = sample not analyzed for this analyte
- NA = not applicable or not analyzed
- BB = equipment rinse blank sample for QA/QC
- TB = trip blank water sample for QA/QC
- ug/kg = micrograms per kilogram

TABLE 5 (Continued)

SUMMARY OF PRE-REMEDIALATION LABORATORY ANALYTICAL DATA - VOCs AND SVOCs IN SOIL  
 BUILDING #2 SUMP AREA  
 755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
 NYSDEC VCP NUMBER V00126-8  
 ERM PROJECT NUMBER 0016744

soil boring	SITE- sample depth	BB2-14	BB2-14	BB2-15	BB2-15	BB2-15	BB2-15	BB2-16	BB2-16	BB2-17	BB2-17	DUPE(3)
date sampled	RSCO	0-1	5-7	0-1	5-6	6-7	8-9	0-2	6-9	1-2	3-5	3-5
		9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/18/02	9/19/02	9/19/02	9/19/02
TCL VOCs (ug/Kg)												
acetone	27	NA	ND<120	NA	ND<120	NA	NA	NA	NA	NA	NA	NA
benzene	20	NA	ND<29	NA	ND<30	NA	NA	NA	NA	NA	NA	NA
methylene chloride	26	NA	ND<29	NA	ND<30	NA	NA	NA	NA	NA	NA	NA
TCL SVOCs (ug/Kg)												
acenaphthene	22522	440	ND<390	ND<390	NA	NA	ND<380	350 J	200 J	ND<390	ND<390	260 J
acenaphthylene	41000	77 J	ND<390	ND<390	NA	NA	ND<380	ND<400	ND<350	ND<390	ND<390	ND<390
anthracene	50000	660	ND<390	ND<390	NA	NA	ND<380	490	220 J	ND<390	46 J	560
benzo (a) anthracene	224 or MDL	1400	ND<390	56 J	NA	NA	ND<380	1300	510	ND<390	95 J	820
benzo (b)fluoranthene	269	920	ND<390	65 J	NA	NA	ND<380	960	360	ND<390	57 J	520
benzo (k) fluoranthene	269	990	ND<390	51 J	NA	NA	ND<380	960	380	ND<390	71 J	550
benzo (g,h,i) perylene	50000	760	ND<390	ND<390	NA	NA	ND<380	680	250 J	ND<390	ND<390	310 J
benzo (a) pyrene	61 or MDL	1200	ND<390	64 J	NA	NA	ND<380	1100	400	ND<390	72 J	650
bis (2-ethylhexyl) phthalate	50000	ND<380	340 J	ND<390	NA	NA	320 J	330 J	290 J	ND<390	ND<390	ND<390
carbazole	NA	330 J	ND<390	ND<390	NA	NA	ND<380	270 J	140 J	ND<390	ND<390	290 J
chrysene	98 or MDL	1300	ND<390	65 J	NA	NA	ND<380	1300	470	ND<390	91 J	780
dibenzo (a,h) anthracene	14 or MDL	250 J	ND<390	ND<390	NA	NA	ND<380	230 J	91 J	ND<390	ND<390	130 J
dibenzofuran	6200	190 J	ND<390	ND<390	NA	NA	ND<380	130 J	93 J	ND<390	ND<390	180 J
di-n-butylphthalate	8100	ND<380	ND<390	ND<390	NA	NA	ND<380	ND<400	ND<350	ND<390	ND<390	ND<390
di-n-octylphthalate	50000	ND<380	ND<390	ND<390	NA	NA	ND<380	ND<400	ND<350	ND<390	ND<390	ND<390
fluoranthene	50000	3200	ND<390	78 J	NA	NA	ND<380	2700	1000	ND<390	170 J	1800
fluorene	50000	390	ND<390	ND<390	NA	NA	ND<380	250 J	160 J	ND<390	ND<390	360 J
indeno (1,2,3-c,d) pyrene	783	690	ND<390	ND<390	NA	NA	ND<380	610	230 J	ND<390	ND<390	290 J
2-methylnaphthalene	36400	80 J	ND<390	ND<390	NA	NA	ND<380	48 J	40 J	ND<390	ND<390	61 J
naphthalene	13000	110 J	ND<390	ND<390	NA	NA	ND<380	64 J	100 J	ND<390	ND<390	61 J
phenanthrene	50000	2700	ND<390	55 J	NA	NA	ND<380	2000	940	ND<390	160 J	1900
pyrene	50000	2300	ND<390	59 J	NA	NA	ND<380	2200	830	ND<390	130 J	1300

## NOTES:

- RSCO = Recommended Soil Cleanup Objective based on NYSDEC TAGM 4046
- MDL = method detection limit
- only those analytes detected in at least one sample are shown.
- bold values with pattern = concentration above the site-specific RSCO
- B = analyte detected in the method blank; blank-corrected value in parentheses
- all sample depths are in feet below surface

- ND<1 = not detected at the listed reporting limit
- NS = sample not analyzed for this analyte
- NA = not applicable or not analyzed
- EB = equipment rinse blank sample for QA/QC
- TB = trip blank water sample for QA/QC
- ug/kg = micrograms per kilogram

TABLE 3 (Continued)

SUMMARY OF PRE-REMEDIALATION LABORATORY ANALYTICAL DATA - VOCs AND SVOCs IN SOIL  
 BUILDING #2 SUMP AREA  
 755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
 NYSDEC VCP NUMBER V00126-8  
 ERM PROJECT NUMBER 0016744

soil boring	SITE-	BB2-18	BB2-19	BB2-19	BB2-20	BB2-20	BB2-20	BB2-21	BB2-21	DUPE(2)	BB2-21	BB2-22
sample depth	SPECIFIC	1-2	1-2	4.5-5.5	1-2	3-4	4-5	1-2	3-5	3-5	6-9	1-2
date sampled	RSCO	9/19/02	9/20/02	9/20/02	9/20/02	9/20/02	9/20/02	9/19/02	9/19/02	9/19/02	9/19/02	9/19/02
<b>TCL VOCs (ug/Kg)</b>												
acetone	27	NA	NA	NA	NA	ND<24	NA	NA	ND<24	ND<23	NA	NA
benzene	20	NA	NA	NA	NA	ND<5.9	NA	NA	ND<6	ND<5.9	NA	NA
methylene chloride	26	NA	NA	NA	NA	ND<5.9	NA	NA	ND<6	ND<5.9	NA	NA
<b>TCL SVOCs (ug/Kg)</b>												
acenaphthene	22522	ND<390	63 J	ND<390	190 J	NA	ND<390	380 J	NA	NA	90 J	72 J
acenaphthylene	41000	ND<390	ND<370	ND<390	ND<400	NA	ND<390	ND<390	NA	NA	ND<390	ND<410
anthracene	50000	ND<390	170 J	ND<390	190 J	NA	ND<390	770	NA	NA	160 J	120 J
benzo (a) anthracene	224 or MDL	ND<390	220 J	ND<390	270 J	NA	ND<390	940	NA	NA	220 J	190 J
benzo (b) fluoranthene	269	ND<390	150 J	ND<390	180 J	NA	ND<390	580	NA	NA	150 J	110 J
benzo (k) fluoranthene	269	ND<390	170 J	ND<390	190 J	NA	ND<390	640	NA	NA	150 J	110 J
benzo (g,h,i) perylene	50000	ND<390	100 J	ND<390	120 J	NA	ND<390	400	NA	NA	100 J	67 J
benzo (a) pyrene	61 or MDL	ND<390	170 J	ND<390	220 J	NA	ND<390	770	NA	NA	160 J	140 J
bis (2-ethylhexyl) phthalate	50000	ND<390	ND<370	ND<390	ND<400	NA	ND<390	300 J	NA	NA	ND<390	ND<410
carbazole	NA	ND<390	98 J	ND<390	83 J	NA	ND<390	310 J	NA	NA	73 J	140 J
chrysene	98 or MDL	ND<390	210 J	ND<390	260 J	NA	ND<390	870	NA	NA	200 J	170 J
dibenzo (a,h) anthracene	14 or MDL	ND<390	ND<370	ND<390	45 J	NA	ND<390	140 J	NA	NA	60 J	ND<410
dibenzofuran	6200	ND<390	46 J	ND<390	130 J	NA	ND<390	240 J	NA	NA	65 J	ND<410
di-n-butylphthalate	8100	ND<390	ND<370	ND<390	ND<400	NA	ND<390	ND<390	NA	NA	44 J	ND<410
di-n-octylphthalate	50000	ND<390	ND<370	ND<390	ND<400	NA	ND<390	ND<390	NA	NA	250 J	ND<410
fluoranthene	50000	ND<390	520	ND<390	630	NA	ND<390	2100	NA	NA	420	380 J
fluorene	50000	ND<390	97 J	ND<390	190 J	NA	ND<390	480	NA	NA	98 J	60 J
indeno (1,2,3-c,d) pyrene	783	ND<390	88 J	ND<390	120 J	NA	ND<390	370 J	NA	NA	100 J	64 J
2-methylnaphthalene	36400	ND<390	ND<370	ND<390	ND<400	NA	ND<390	77 J	NA	NA	ND<390	ND<410
naphthalene	13000	ND<390	ND<370	ND<390	ND<400	NA	ND<390	63 J	NA	NA	46 J	ND<410
phenanthrene	50000	ND<390	600	ND<390	670	NA	ND<390	2500	NA	NA	470	410
pyrene	50000	ND<390	360 J	ND<390	380 J	NA	ND<390	1500	NA	NA	340 J	320 J

## NOTES:

- RSCO = Recommended Soil Cleanup Objective based on NYSDEC TAGM 4046
- MDL = method detection limit
- only those analytes detected in at least one sample are shown.
- bold values with pattern = concentration above the site-specific RSCO
- B = analyte detected in the method blank; blank-corrected value in parentheses
- all sample depths are in feet below surface

- ND<1 = not detected at the listed reporting limit
- NS = sample not analyzed for this analyte
- NA = not applicable or not analyzed
- EB = equipment rinse blank sample for QA/QC
- TB = trip blank water sample for QA/QC
- ug/kg = micrograms per kilogram

TABLE 5 (Continued)

SUMMARY OF PRE-REMEDIALATION LABORATORY ANALYTICAL DATA - VOCs AND SVOCs IN SOIL  
 BUILDING #2 SUMP AREA  
 755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK  
 NYSDEC VCP NUMBER V00126-8  
 ERM PROJECT NUMBER 0016744

soil boring sample depth date sampled	SITE- SPECIFIC RSCO	BB2-22 6.5-7.5 9/19/02	BB2-23 9-12 9/23/02	BB2-23 12-14.5 9/23/02	DUPE(3) 12-14.5 9/23/02	BB2-24 1-2 9/20/02	BB2-24 5-7 9/20/02	BB2-25 9-10 9/18/02	BB2-25 16-17 9/18/02
TCL VOCs (ug/Kg)									
acetone	27	NA	NA	8.5 J	NA	NA	ND<24	NA	NA
benzene	20	NA	NA	ND<6	NA	NA	ND<6	NA	NA
methylene chloride	26	NA	NA	ND<6	NA	NA	ND<6	NA	NA
TCL SVOCs (ug/Kg)									
acenaphthene	22522	ND<380	ND<390	2300 J	ND<390	ND<390	330 J	ND<400	ND<390
acenaphthylene	41000	ND<380	ND<390	ND<3900	ND<390	ND<390	ND<400	ND<400	ND<390
anthracene	50000	ND<380	ND<390	4200	ND<390	ND<390	640	ND<400	ND<390
benzo (a) anthracene	224 or MDL	41 J	ND<390	7200	57 J	42 J	770	ND<400	ND<390
benzo (b) fluoranthene	269	ND<380	ND<390	6600	49 J	ND<390	450	ND<400	ND<390
benzo (k) fluoranthene	269	ND<380	ND<390	6700	48 J	ND<390	490	ND<400	ND<390
benzo (g,h,i) perylene	50000	ND<380	ND<390	4600	ND<390	ND<390	310 J	ND<400	ND<390
benzo (a) pyrene	61 or MDL	ND<380	ND<390	7300	53 J	ND<390	600	ND<400	ND<390
bis (2-ethylhexyl) phthalate	50000	ND<380	ND<390	ND<3900	ND<390	ND<390	ND<400	ND<400	ND<390
carbazole	NA	ND<380	ND<390	3700 J	ND<390	ND<390	360 J	ND<400	ND<390
chrysene	98 or MDL	ND<380	ND<390	7700	63 J	40 J	700	ND<400	ND<390
dibenzo (a,h) anthracene	14 or MDL	ND<380	ND<390	1500 J	ND<390	ND<390	120 J	ND<400	ND<390
dibenzofuran	6200	ND<380	ND<390	1500 J	ND<390	ND<390	220 J	ND<400	ND<390
di-n-butylphthalate	8100	88 J	ND<390	ND<3900	ND<390	ND<390	ND<400	ND<400	ND<390
di-n-octylphthalate	50000	ND<380	ND<390	ND<3900	ND<390	ND<390	ND<400	ND<400	ND<390
fluoranthene	50000	79 J	48 J	20000	140 J	74 J	1900	ND<400	ND<390
fluorene	50000	ND<380	ND<390	2300 J	ND<390	ND<390	360 J	ND<400	ND<390
indeno (1,2,3-c,d) pyrene	783	ND<380	ND<390	4300	ND<390	ND<390	290 J	ND<400	ND<390
2-methylnaphthalene	36400	ND<380	ND<390	ND<3900	ND<390	ND<390	110 J	ND<400	ND<390
naphthalene	13000	ND<380	ND<390	470 J	ND<390	ND<390	130 J	ND<400	ND<390
phenanthrene	50000	80 J	43 J	19000	140 J	80 J	2100	ND<400	ND<390
pyrene	50000	61 J	40 J	13000	98 J	57 J	1200	ND<400	ND<390

## NOTES:

- RSCO = Recommended Soil Cleanup Objective based on NYSDECTAGM 4046
- MDL = method detection limit
- only those analytes detected in at least one sample are shown.
- bold values with pattern = concentration above the site-specific RSCO
- B = analyte detected in the method blank; blank-corrected value in parentheses
- all sample depths are in feet below surface

- ND<1 = not detected at the listed reporting limit
- NS = sample not analyzed for this analyte
- NA = not applicable or not analyzed
- EB = equipment rinse blank sample for QA/QC
- TB = trip blank water sample for QA/QC
- ug/kg = micrograms per kilogram

TABLE 5 (Continued)

SUMMARY OF PRE-REMEDIALATION LABORATORY ANALYTICAL DATA - VOCs AND SVOCs IN SOIL  
BUILDING #2 SUMP AREA

755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK

NYSDEC VCP NUMBER V00126-8

ERM PROJECT NUMBER 0016744

sample designation	SITE- SPECIFIC	EB-1	EB-2	EB-3	EB-4	TB-1	TB-2	TB-4
date sampled	RSCO	9/18/02	9/19/02	9/20/02	9/23/02	9/18/02	9/19/02	9/23/02
TCL VOCs (ug/Kg)								
acetone	27	ND<20	6.3 J	6.2 J	ND<20	ND<20	ND<20	ND<20
benzene	20	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
methylene chloride	26	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
TCL SVOCs (ug/Kg)								
acenaphthene	22522	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
acenaphthylene	41000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
anthracene	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
benzo (a) anthracene	224 or MDL	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
benzo (b)fluoranthene	269	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
benzo (k) fluoranthene	269	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
benzo (g,h,i) perylene	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
benzo (a) pyrene	61 or MDL	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
bis (2-ethylhexyl) phthalate	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
carbazole	NA	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
chrysene	98 or MDL	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
dibenzo (a,h) anthracene	14 or MDL	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
dibenzofuran	6200	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
di-n-butylphthalate	8100	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
di-n-octylphthalate	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
fluoranthene	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
fluorene	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
indeno (1,2,3-c,d) pyrene	783	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
2-methylnaphthalene	36400	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
naphthalene	13000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
phenanthrene	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA
pyrene	50000	ND<9.4	ND<9.3	ND<9.6	ND<9.4	NA	NA	NA

## NOTES:

- RSCO = Recommended Soil Cleanup Objective based on NYSDEC TAGM 4046
- MDL = method detection limit
- only those analytes detected in at least one sample are shown.
- bold values with pattern = concentration above the site-specific RSCO
- B = analyte detected in the method blank; blank-corrected value in parentheses
- all sample depths are in feet below surface

- ND<1 = not detected at the listed reporting limit
- NS = sample not analyzed for this analyte
- NA = not applicable or not analyzed
- EB = equipment rinse blank sample for QA/QC
- TB = trip blank water sample for QA/QC
- ug/kg = micrograms per kilogram

**TABLE 4**  
**SUMMARY OF PRE-REMEDATION LABORATORY ANALYTICAL DATA - TOC**  
**BUILDING #2 SUMP AREA**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0016744**

Sample Identification	BB2-11	BB2-13	BB2-15	BB2-17	BB2-21	BB2-23	BB2-23	BB2-25
sample depth	5-6	16-17	6-7	3-5	2-3	9-12	12-14.5	16-17
date sampled	9/18/02	9/18/02	9/18/02	9/19/02	9/19/02	9/23/02	9/23/02	9/18/02
TOC ( mg/Kg )	NA	1240	1570	609	4140	1860	950	1630

**NOTES:**

- TOC = Total Organic Carbon by the Lloyd Kahn method
- NA = a sample was collected but was not analyzed due to inadvertant omission by the laboratory
- mg/kg = miligrams per kilogram

*Appendix B*  
*Letter Report on*  
*BB2-14 Soil Removal Action*

*Appendix B of the  
B2SA Final Engineering Report*

**BB2-14 Area Removal Action  
755 Jefferson Road Facility  
Henrietta, New York**  
*Voluntary Cleanup Program  
Number V00126-8*

29 March 2006

ERM Project Number 0040628

ENVIRONMENTAL RESOURCES MANAGEMENT  
5788 Widewaters Parkway  
Dewitt, New York 13214



## TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS	iii
1.0 INTRODUCTION	1-1
2.0 SUMMARY OF BB2-14 AREA REMOVAL ACTION	2-1
2.1 SOIL EXCAVATION AND SAMPLING	2-1
2.1.1 <i>Site Preparation</i>	2-1
2.1.2 <i>Soil Removal</i>	2-1
2.1.3 <i>Excavation Sampling</i>	2-2
2.1.4 <i>Backfilling and Restoration</i>	2-2
2.2 SURFACE SOIL SAMPLING	2-2
2.3 WASTE STREAMS	2-3
2.3.1 <i>Excavated Soil</i>	2-3
2.3.2 <i>Personal Protective Equipment and Other Solid Waste</i>	2-4
3.0 RESULTS	3-1
3.1 SOIL EXCAVATION AND SAMPLING	3-1
3.2 SURFACE SOIL SAMPLING	3-1
3.3 WASTE STREAMS	3-2
3.3.1 <i>Excavated Soil</i>	3-2
3.3.2 <i>Personal Protective Equipment and Other Solid Waste</i>	3-3
3.4 CONCLUSIONS	3-3
4.0 REFERENCES CITED	4-1

## LIST OF FIGURES

1	<i>Site Location Map</i>
2	<i>Site Layout and BB2-14 Area Location</i>
3	<i>Extent of Soil Excavation and Soil Sample Locations</i>
4	<i>Surface Soil Sample Locations</i>

## LIST OF TABLES

1	<i>Summary Of Soil Samples</i>
2	<i>Summary Of Laboratory Analytical Data</i>

## APPENDICIES

B-1	<i>Salient Correspondence to NYSDEC</i>
B-2	<i>Photographic Log</i>
B-3	<i>Soil Sample Records</i>
B-4	<i>Data Usability Summary Report</i>
B-5	<i>Non-Hazardous Waste Manifest</i>

## ACRONYMS AND ABBREVIATIONS

ASP	Analytical Services Protocol
B2SA	Building #2 Sump Area
bfs	below floor surface
CAMP	Community Air Monitoring Program
CRWP	Consolidated Remediation Work Plan
DUSR	Data Usability Summary Report
ERM	Environmental Resources Management
FER	Final Engineering Report
HASP	Health and Safety Plan
MCDES	Monroe County Department of Environmental Services
MCDOH	Monroe County Department of Health
mg/kg	milligrams per kilogram (parts per million)
mg/l	milligrams per liter (parts per million)
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDEL	New York State Department of Labor
NYSDOT	New York State Department of Transportation
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
ppb	parts per billion
ppm	parts per million
QAPP	Quality Assurance Project Plan
RAWP	Remedial Action Work Plan
RSCO	Recommended Soil Cleanup Objective
SVOC	Semivolatile Organic Compound
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target Analyte List
TCL	Target Compound List
UCB	UCB Manufacturing, Inc. (the Volunteer)
µg/kg	micrograms per kilogram (parts per billion)
µg/l	micrograms per liter (parts per billion)
USEPA	United States Environmental Protection Agency
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound

## INTRODUCTION

Environmental Resources Management (ERM) performed investigation and remediation at the UCB Manufacturing, Inc. (UCB or the Volunteer) facility located at 755 Jefferson Road in the Town of Henrietta, Monroe County, New York (the Site). A map showing the location of the Site is presented in Figure 1. UCB's predecessor (Medeva Pharmaceutical Manufacturing Inc.) entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) in March 1998.

Several rounds of environmental investigation performed in the Building #2 Sump Area (B2SA) between 1996 and 2005 documented that several semivolatile organic compounds (SVOCs) of potential concern were present in soil in the vicinity of soil boring BB2-14 (designated the BB2-14 Area). A map showing the location of the BB2-14 Area within the B2SA is presented in Figure 2. The environmental investigations were primarily used for the development and refinement of a proposed remedial approach for the B2SA. NYSDEC originally approved a Remedial Action Work Plan (RAWP) for the Site on 19 December 2002 (NYSDEC, 2002). Investigations suggested that SVOCs detected in the B2SA, including the SVOCs in the BB2-14 Area, were associated with bituminous waterproofing material used in the construction and maintenance of Building #2 and were not associated with Site operations. Subsequent refinements to the proposed remedial approach for the B2SA were outlined in the B2SA Remedial Design Investigation (RDI) Report (ERM, 2004) and its Addendum Report (ERM, 2005), both of which were subsequently approved by NYSDEC on 26 July 2005 (NYSDEC, 2005). Remediation of the B2SA is addressed in the B2SA Final Engineering Report (ERM, 2006a).

When NYSDEC approved the B2SA RDI Report and its Addendum Report (NYSDEC, 2005), it recommended that a focused additional soil removal and sampling program be carried out in the BB2-14 Area. As requested by NYSDEC, soil removal and additional sampling were subsequently performed in the BB2-14 Area on behalf of the Volunteer in the interest of achieving closure without restriction under the VCA (or spell out Voluntary Cleanup Program prior to using the acronym). This report summarizes the results of this additional removal effort and is hereby submitted as Appendix B to the Final Engineering Report for the B2SA (ERM, 2006a) as approved by NYSDEC and outlined in ERM's correspondence dated 17 January 2006 (ERM, 2006b), 24 January 2006 (ERM, 2006c), and 25 January 2006 (ERM, 2006d). Copies of ERM (2006b), ERM (2006c), and ERM (2006d) are presented in Appendix B-1 of this report.

## 2.0

### ***SUMMARY OF BB2-14 AREA SOIL REMOVAL ACTION***

An excavation was installed at the location of former soil boring BB2-14 to remove soil from the vicinity of where several SVOCs had been detected in the sample previously collected from soil boring BB2-14 at a depth of zero to one foot below ground surface. A map showing the extent of the BB2-14 Area soil excavation and the locations of samples collected from the excavation is presented in Figure 3. A map showing the location of post removal confirmation surface samples (0 to 1 foot depth) relative to the BB2-14 Area excavation is presented in Figure 4.

ERM and its remedial subcontractor facilitated compliance with the following: the Volunteer's safe work procedures; NYSDEC, New York State Department of Health (NYSDOH), New York State Department of Labor (NYSDOL), and Occupational Safety and Health Administration (OSHA) requirements; appropriate materials specifications; and other applicable requirements typically applied to remedial construction projects. Air monitoring for volatile organic compounds (VOCs) and aerosols was performed during intrusive activities in accordance with the NYSDEC-approved Site-specific Health and Safety Plan and the Community Air Monitoring Program (ERM, 2002). A photographic log documenting selected features and components of the BB2-14 removal action is presented in Appendix B-2.

## 2.1 ***SOIL EXCAVATION AND SAMPLING***

### 2.1.1 ***Site Preparation***

Site preparation activities were performed on 8 November 2005. UCB personnel located, identified, and marked the location of subsurface utilities in the work area. A portion of the chain-link fence on the west side of Building #2 was removed to allow unfettered access to the BB2-14 work area.

### 2.1.2 ***Soil Excavation and Removal***

Soil excavation and removal was performed on 8 November 2005 using a mini-excavator. Excavated soil was examined by an ERM geologist for visual and/or olfactory evidence of contamination and was also screened in the field for total VOCs using a calibrated photoionization detector (PID). Excavated soil was stockpiled adjacent to the excavation in a bermed area on top of a double layer of polyethylene sheeting. The

excavated soil pile was covered with another layer of polyethylene sheeting for temporary staging prior to subsequent off-site transport and disposal at a permitted disposal facility.

### 2.1.3 *Excavation Sampling*

Upon completion of soil excavation activities, soil sampling was performed in the excavation in conformance with sampling procedures outlined in the NYSDEC-approved Remedial Action Work Plan (RAWP). A total of five soil samples and one blind duplicate were collected at the locations show in Figure 3. Sample designations and other relevant information are summarized in Table 1. An ERM geologist described the samples for color, texture, odor, consistency, density, organic matter, moisture content, and other pertinent observations. Sample descriptions and other relevant information were recorded on ERM soil sample records (Appendix B-3).

All samples were transferred into laboratory-supplied sample jars and placed into a pre-chilled cooler for preservation and transport to the project laboratory. The samples were submitted to STL-Buffalo of Amherst, New York (STL-Buffalo) for analysis of SVOCs of potential concern as identified in the NYSDEC-approved RAWP. STL-Buffalo is a NYSDOH-approved environmental laboratory. ERM requested NYSDEC Analytical Services Protocol (ASP) Category B deliverables for all excavation soil samples. In accordance with NYSDEC requirements, validation of BB2-14 Area soil sample analytical data was performed and a Data Usability Summary Report (DUSR) was prepared for all excavation soil samples in conformance with NYSDEC guidelines. The DUSR for all BB2-14 Area soil samples is presented in Appendix B-4.

### 2.1.4 *Backfilling and Restoration*

Backfilling of the excavated area was accomplished to the pre-existing ground surface using clean granular fill material previously obtained by UCB for general use at the Site. Until backfilling was complete, access to the BB2-14 work area was restricted using the existing chain-link fencing supplemented with caution tape and orange plastic fencing.

## 2.2 **SURFACE SOIL SAMPLING**

NYSDEC subsequently requested the collection of additional soil samples in the vicinity of the BB2-14 soil excavation from ground surface to a

depth of two inches below ground surface (ERM, 2006b). Therefore, additional soil sampling was conducted on 27 January 2006. Four surface soil samples were collected in conformance with procedures outlined in the NYSDEC-approved RAWP and the correspondence from ERM to NYSDEC dated 17 January 2006 (ERM, 2006b). A total of four soil samples were collected at the locations show in Figure 4. Sample designations and other relevant information are summarized in Table 1. An ERM geologist described the samples for color, texture, odor, consistency, density, organic matter, moisture content, and other pertinent observations. Sample descriptions and other relevant information were recorded on ERM soil sample records (Appendix B-3).

All surface soil samples were transferred into laboratory-supplied sample jars and placed into a pre-chilled cooler for preservation and transport to STL-Buffalo for analysis of SVOCs of potential concern as identified in the NYSDEC-approved RAWP. ERM requested NYSDEC ASP Category B deliverables for all surface soil samples. In accordance with NYSDEC requirements, validation of laboratory analytical data associated with the surface soil samples was performed and a DUSR was prepared in conformance with NYSDEC guidelines (Appendix B-4).

## 2.3 WASTE STREAMS

### 2.3.1 *Excavated Soil*

The temporary soil staging area described above in Section 2.1.2 was used to temporarily stage soil excavated from the BB2-14 Area. Soil from this pile was subsequently transferred into four 55-gallon DOT-approved steel drums for eventual transport and disposal off Site as non-hazardous waste. Characterization of excavated soil as non-hazardous waste was determined as required by regulation and by the selected off-Site disposal facility using available laboratory analytical data from excavation soil samples and generator knowledge.

The four drums of excavated soil were picked up at the Site on 12 January 2006 by the Environmental Service Group, Inc. (ESG) of Tonawanda, New York and transported off Site for recycling at the American Recyclers Company in Tonawanda, New York (USEPA ID Number NYR000030809). ESG is a NYSDEC Part 364-permitted waste hauler (USEPA ID Number NYD986903904). The shipment of excavated soil from the Site was accompanied by a non-hazardous waste manifest (Appendix B-5).

### 2.3.2

#### *Personal Protective Equipment and Other Solid Waste*

Soil excavated from the BB2-14 area was determined to be a non-hazardous waste as described above in Section 2.3.1. Therefore, personal protective equipment (PPE), polyethylene sheeting, disposable sampling equipment, and other materials that came into contact with excavated soil were also determined to be non-hazardous waste. Therefore, PPE, disposable sampling equipment, polyethylene sheeting, and other materials that came into contact with excavated soil from the BB2-14 Area were placed into routine facility waste dumpsters along with the facility's routine municipal-type wastes as approved by NYSDEC in the RAWP for the Site.

## 3.0 *RESULTS*

### 3.1 *SOIL EXCAVATION AND SAMPLING*

Action levels for VOCs and aerosols listed in the HASP and CAMP for the Site were not exceeded during the BB2-14 removal action. Soil excavated from the BB2-14 Area consisted predominantly of homogenous, soft, medium brown sandy gravel with lesser amounts of fine-grained soil (Appendix B-2). Moisture content was generally moist and the material generally possessed no distinct odor. Distinct, globular masses of black, bituminous-like material consistent with the bituminous material used as waterproofing beneath and around Building #2 were plainly visible in excavated material from the BB2-14 Area (see Appendix B-2).

Table 2 presents a summary of validated laboratory analytical data for SVOCs of potential concern. As expected, several SVOCs were detected in the soil samples collected from the excavation at concentrations above Site-specific Recommended Soil Cleanup Objectives (RSCOs) contained in the NYSDEC-approved RAWP. The detected concentrations of SVOCs in the excavation samples are generally consistent with previous laboratory analytical results for other samples collected in the B2SA as documented in Table 3-1 of the B2SA RDI Report (ERM, 2004). See, for example, the SVOC results for samples Base 24, Base 25, and BB2-11 on Table 3-1 of that Report. As outlined in the B2SA RDI Report (ERM, 2004), its Addendum Report (ERM, 2005), subsequent conversations with NYSDEC and NYSDOH, and Section 3.3 of the B2SA FER, the SVOCs detected in B2SA soil samples are derived from the bituminous waterproofing material and are therefore associated with construction activities, not Site operations. NYSDEC and NYSDOH previously indicated that additional investigation or remediation of construction-related compounds will not be required at this Site (ERM, 2006c).

### 3.2 *SURFACE SOIL SAMPLING*

As expected, several SVOCs were detected in the surface soil samples collected around the BB2-14 excavation at concentrations above Site-specific RSCOs contained in the NYSDEC-approved RAWP. The suite and concentrations of SVOCs detected in the BB2-14 Area surface soil samples are generally consistent with previous laboratory analytical results for other samples collected in the B2SA as documented in Table 3-1 of the B2SA RDI Report (ERM, 2004). The only known/reported spills/releases from the diesel tank were reported to NYSDEC. A 1991



release of 40 gallons reportedly occurred inside the fence line due to an equipment failure. The spill was largely contained, although some diesel fuel reportedly seeped through cracks in concrete to soil. The affected soil was excavated at that time and disposed of at a permitted facility off-site. According to NYSDEC records, the Department closed its file on this spill on 28 June 1991.

Bituminous-like material is plainly visible in soil in and around the BB2-14 excavation area (see photographs in Appendix B-2) Additionally, while this area is currently not black topped, this fenced-in utility area is located adjacent to a large black-topped parking area that begins on the south end of Building #2 and the fenced in utility area and extends further south. Because of the obvious presence of bituminous-like material in soil and its proximity to a large blacktopped area, the detection of SVOCs such as those often found associated with black-top in very shallow soils is not unexpected. During the call between ERM, representatives of UCB, NYSDEC, and NYDOH on 24 January 2006, both agencies indicated that they would not expect further investigation and/or remediation in the event that the SVOCs were likely attributable to blacktop, bituminous waterproofing material, or other construction related material. Further, during that call both agencies also agreed that finding SVOCs from these sources in shallow (or deeper) soil at concentrations above the RSCOs was not unexpected.

As described above in Section 3.1 and in Section 3.3 of the B2SA FER (ERM 2006a), SVOCs detected in BB2-14 Area samples are derived from the bituminous waterproofing material and are therefore associated with construction activities, not Site operations. NYSDEC and NYSDOH previously indicated that remediation of construction-related compounds will not be required at this Site (ERM, 2006c). Therefore, additional investigation or remediation of SVOCs in the BB2-14 Area is not warranted nor should these results keep the Site from receiving a “clean release” at the end of the remedial process.

### **3.3 WASTE STREAMS**

#### **3.3.1 Excavated Soil**

A total of four drums of excavated soil were removed from the BB2-14 Area and transported off Site for proper disposal (Appendix B-5). The total mass of soil excavated and transported off Site from the BB2-14 Area is estimated at approximately 2000 pounds (one ton).

### 3.3.2 *Personal Protective Equipment and Other Solid Waste*

ERM estimates the total mass of non-hazardous PPE disposable sampling equipment, plastic sheeting, or other materials that came into contact with excavated soil and associated waste that was placed into facility dumpsters was approximately 10 pounds.

## 3.4 **CONCLUSIONS**

The SVOCs found in the shallow soils in the BB2-14 area are the same types of SVOCs which have been found elsewhere on site. The sources of these SVOCs are likely to be the use, during construction of the building, of bituminous waterproofing material as a coating on in-ground structures.

There were no visible indications of any significant releases of diesel fuel in this area, and the only known release of diesel fuel in this area was cleaned up to NYSDEC's satisfaction in 1991. Bituminous-like material consistent with the material used during construction of Building #2 is present in excavated soil and in the excavation walls and floor. The SVOCs found are also similar to SVOCs found in blacktopping and blacktop sealant which are other common bituminous construction products.. A large blacktopped area is present in relatively close proximity to the BB2-14 area. This blacktopping may also be a source of the SVOCs found in the very shallow (surface to 4 inch deep) samples.

The BB2-14 area is fenced and is not routinely occupied; thus, there should be no routine exposure to shallow soils in this area.

NYSDEC and NYSDOH previously indicated that remediation of construction-related compounds will not be required at this Site. Furthermore, both agencies agreed that the finding of SVOCs in the soil at levels at or above the RSCOs attributed to construction or bituminous-like materials will not prevent the site from receiving a "clean release" at the end of the remediation (ERM, 2006c).

Based upon this removal action and the findings discussed in this report, additional investigation or remediation of SVOCs in the BB2-14 Area is not warranted.

**REFERENCES CITED**

- ERM, 2002. Consolidated Remediation Work Plan - 755 Jefferson Road Facility, Henrietta, New York: NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, April 2002.
- ERM, 2004. Building #2 Sump Area Remedial Design Investigation Report - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, July 2004.
- ERM, 2005. Addendum to the Building #2 Sump Area Remedial Design Investigation Report - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, April 2005.
- ERM, 2006a. Building #2 Sump Area Final Engineering Report - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, February 2006.
- ERM, 2006b. E-mail correspondence to NYSDEC dated 17 January 2006 summarizing a teleconference with NYSDEC on 4 January 2006 regarding an NYSDEC request for additional soil sampling, analysis, and reporting in the BB2-14 Area - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York.
- ERM, 2006c. E-mail correspondence to NYSDEC dated 24 January 2006 summarizing a teleconference with NYSDEC and NYSDOH on 24 January 2006 documenting recent understandings and agreements regarding additional soil sampling, analysis, and reporting in the BB2-14 Area - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York.
- ERM, 2006d. E-mail correspondence to NYSDEC dated 25 January 2006 providing notice of surficial soil sampling and a summary of recent conversations and understandings with NYSDEC and NYSDOH regarding the BB2-14 Area - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York.

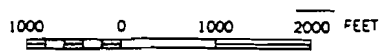
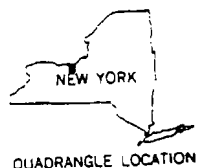
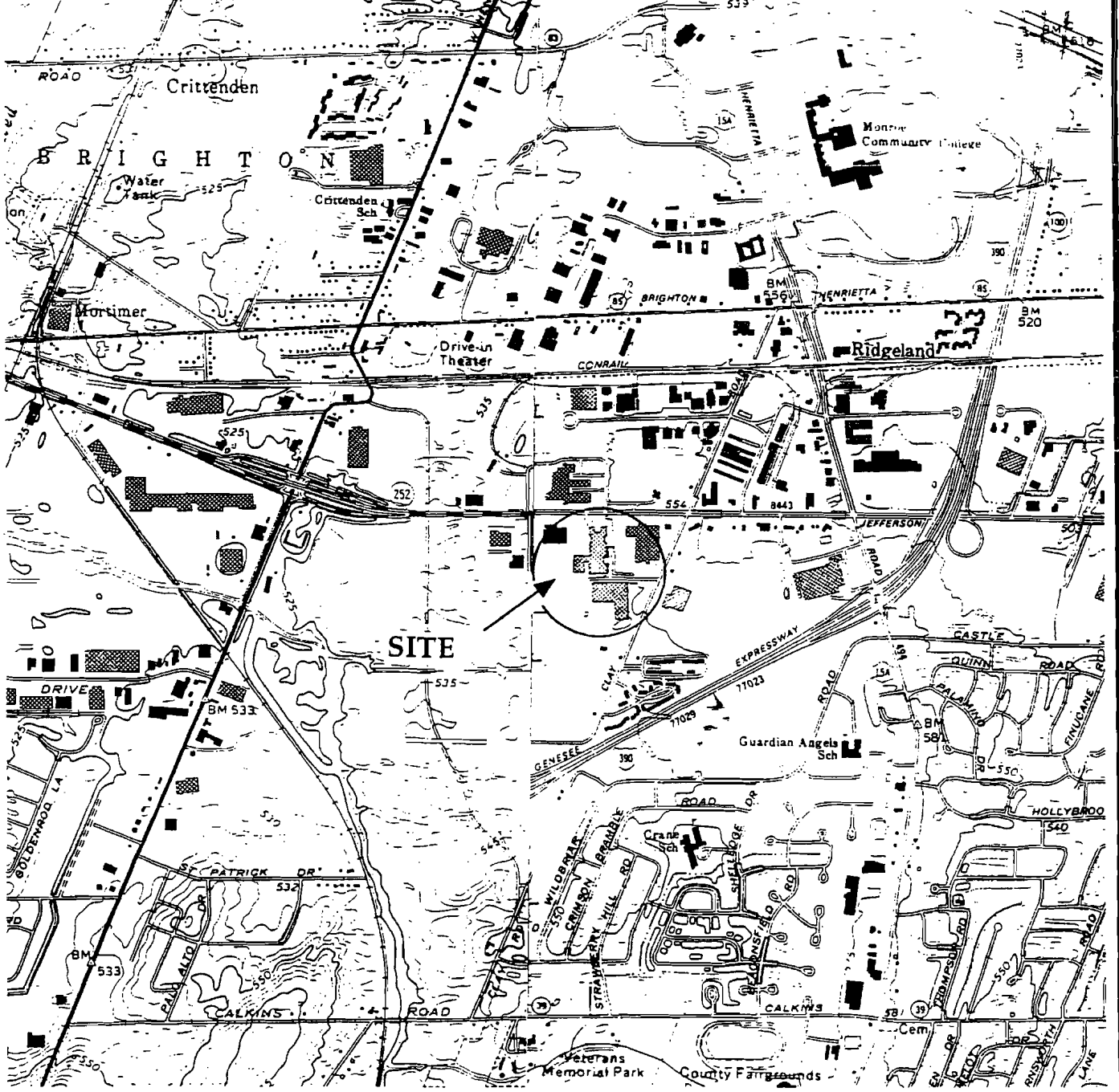
NYSDEC, 2002. Correspondence to Celltech Manufacturing, Inc. dated 19 December 2002 regarding NYSDEC approval of the Remedial Action Work Plan for the 755 Jefferson Road Site, Henrietta, New York. Mr. Bartholomew Putzig, P.E., NYSDEC Region 8, Avon, New York.

NYSDEC, 2005. Correspondence to UCB Manufacturing, Inc. dated 26 July 2005 regarding NYSDEC approval of the Building #2 Sump Area Remedial Design Investigation Report dated July 2004 and its Addendum Report dated 5 April 2005. 755 Jefferson Road Site, Henrietta, New York. Mr. Gregory B. MacLean, P.E., NYSDEC Region 8, Avon, New York.

## *Figures*

WEST HENRIETTA QUADRANGLE  
 NEW YORK MONROE CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)

PITTSFORD QUADRANGLE  
 NEW YORK-MONROE CO.  
 7.5 MINUTE SERIES



**SITE LOCATION MAP  
 JEFFERSON ROAD FACILITY  
 HENRIETTA, NY**

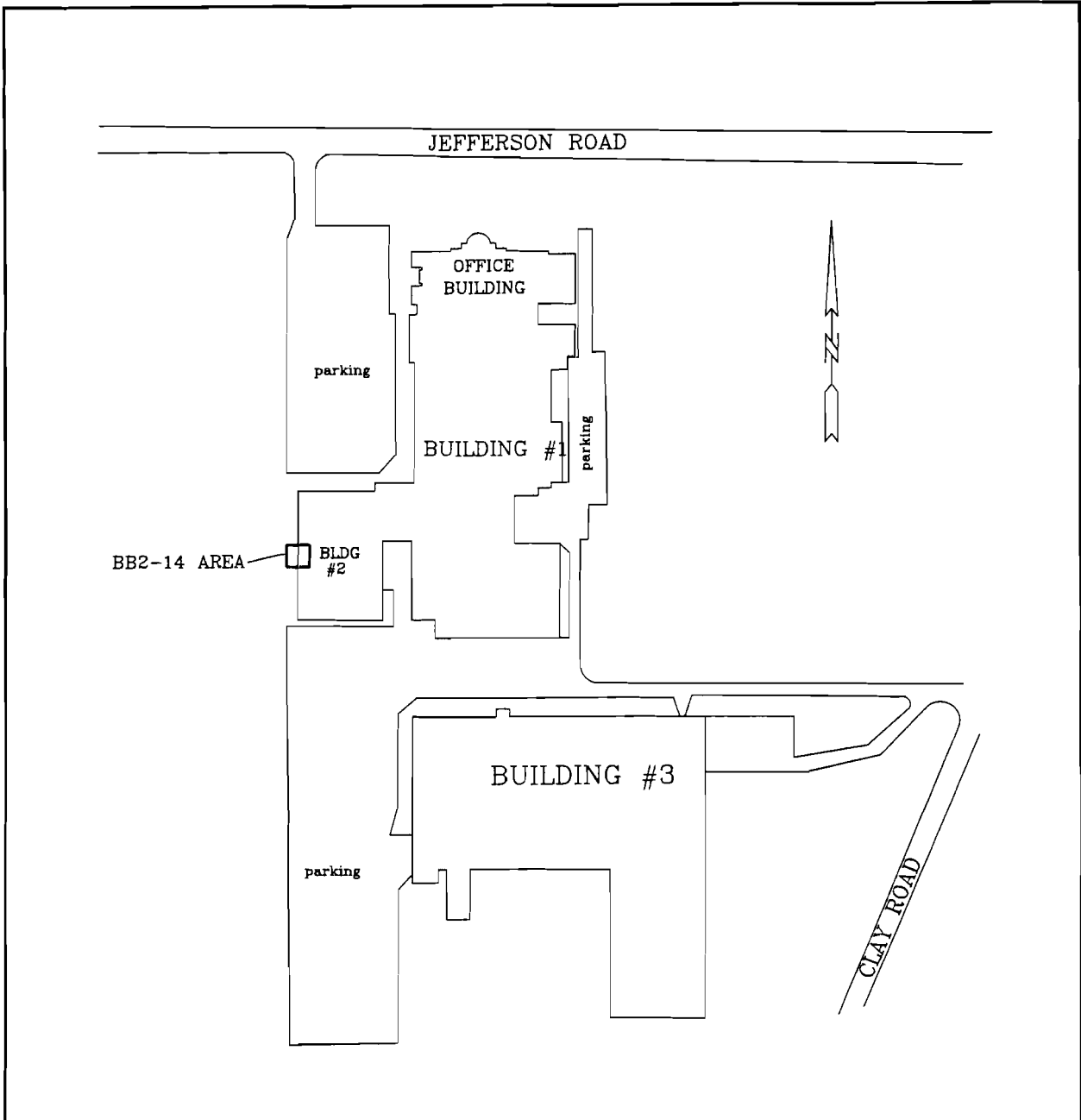
PREPARED FOR  
**JEFFERSON ROAD FACILITY**




**ERM**

SCALE NTS	FIGURE <b>1</b>
DATE 1-97	

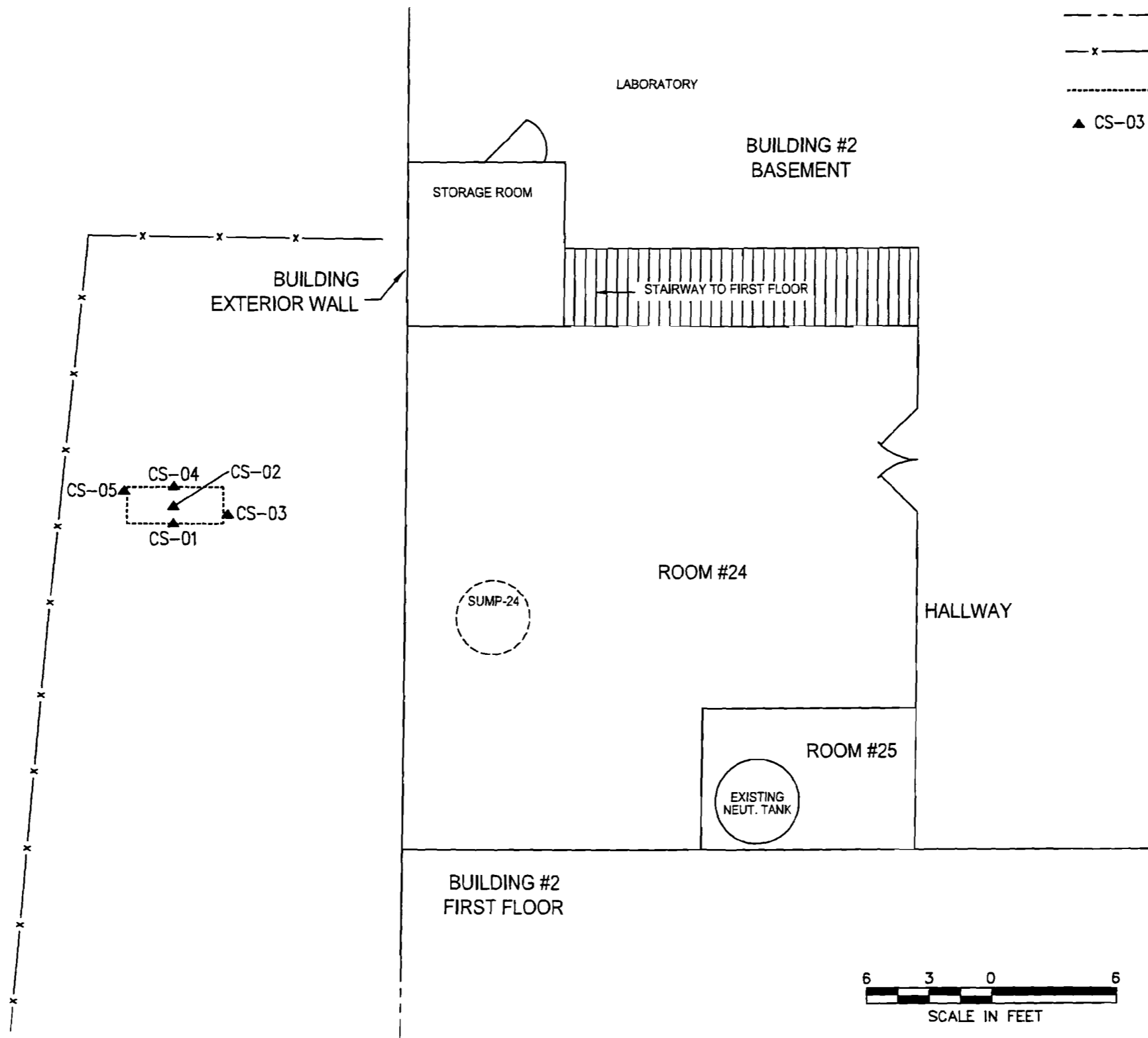
1218 007 SITE LOC.DWG



SITE LAYOUT MAP AND BB2-14 AREA 755 JEFFERSON ROAD FACILITY HENRIETTA, NEW YORK		
PREPARED FOR 755 JEFFERSON ROAD FACILITY		
 <b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE NTS	FIGURE 2
	DATE 02-13-06	

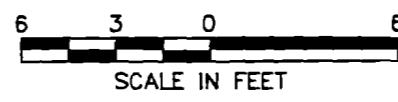



WEST PROPERTY LINE  
N 01°15'24" W



**LEGEND:**

- SURVEYED PROPERTY LINE
- x- CHAIN LINK FENCE
- PROXIMAL EXCAVATION LOCATION
- ▲ CS-03 CONFIRMATION SOIL SAMPLE LOCATION & DESIGNATION



EXTENT OF REMEDIAL SOIL EXCAVATION AND CONFIRMATION SOIL SAMPLES NYSDEC VCP#V00126-8		
PREPARED FOR 755 JEFFERSON ROAD FACILITY		
 <b>ERM</b> 5788 WIDEWATERS PARKWAY DEWITT, NEW YORK 13214	SCALE 1"=5'	FIGURE 3
	DATE 02-13-06	





**LEGEND:**

- — — SURVEYED PROPERTY LINE
- x — CHAIN LINK FENCE
- ..... PROXIMAL EXCAVATION LOCATION
- SS-N SURFACE SOIL SAMPLE LOCATION & DESIGNATION

WEST PROPERTY LINE  
N 01°18'24" W

BUILDING  
EXTERIOR WALL

LABORATORY

BUILDING #2  
BASEMENT

STORAGE ROOM

STAIRWAY TO FIRST FLOOR

SS-W    SS-N    SS-E  
SS-S

ROOM #24

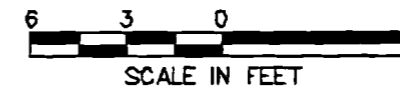
SUMP-24

HALLWAY

ROOM #25

EXISTING  
NEUT. TANK

BUILDING #2  
FIRST FLOOR



AREA SURFACE SOIL SAMPLES  
NYSDEC VCP #V00126-B

PREPARED FOR  
755 JEFFERSON ROAD FACILITY

**ERM**  
5788 WIDEWATERS PARKWAY  
DEWITT, NEW YORK 13214

SCALE	FIGURE
1"=6'	4
DATE	
02-13-06	

## *Tables*

**TABLE 1**  
**SUMMARY OF SOIL SAMPLES**  
**BB2-14 AREA REMOVAL ACTION**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0040628**

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	SVOCs	COMMENTS
CS01	11/8/05	18.5	X	Confirmation sample - south wall
CS02	11/8/05	24	X	Confirmation sample - excavation bottom
CS03	11/8/05	16	X	Confirmation sample - east wall
CS04	11/8/05	15	X	Confirmation sample - north wall
CS05	11/8/05	19	X	Confirmation sample - west wall
CS06	11/8/05	19	X	Blind duplication of sample CS05
SS-S	1/27/06	0-2	X	Surface sample south of excavation
SS-E	1/27/06	0-2	X	Surface sample east of excavation
SS-W	1/27/06	0-2	X	Surface sample west of excavation
SS-N	1/27/06	0-2	X	Surface sample north of excavation

**NOTES:**

- Sample depth is reported in inches below surface at the location of the soil boring.
- SVOCs = semivolatile organic compounds by USEPA Method 8270.
- Additional volume collected with CS01 for matrix spike / matrix spike duplicate

**TABLE 2**  
**SUMMARY OF LABORATORY ANALYTICAL DATA**  
**BB2-14 AREA REMOVAL ACTION**  
**755 JEFFERSON ROAD FACILITY - HENRIETTA, NEW YORK**  
**NYSDEC VCP NUMBER V00126-8**  
**ERM PROJECT NUMBER 0040628**

soil boring sample depth (inches) date sampled	SITE- SPECIFIC RSCO	CS01 18.5 11/8/06	CS02 24 11/8/06	CS03 16 11/8/06	CS04 15 11/8/06	CS05 19 11/8/06	SS-S 0-2 1/27/06	SS-E 0-2 1/27/06	SS-W 0-2 1/27/06	SS-N 0-2 1/27/06
<b>SVOCs (ug/kg)</b>										
benzo (a) anthracene	224 or MDL	420	240 J	1000	540	87 J	6400	3400 J	2800 J	6200 J
benzo (b) fluoranthene	269	510	290 J	1400	640	120 J	8700	5500	4300	8300 J
benzo (k) fluoranthene	269	190 J	110 J	1500	250 J	39 J	2100 J	5700	990 J	2300 J
benzo (a) pyrene	61 or MDL	370 J	220 J	780	480	80 J	5900	3300 J	2800 J	6200 J
chrysene	98 or MDL	400	220 J	940	500	91 J	6800	3200 J	3000 J	6100 J

**NOTES:**

- = not detected above the laboratory detection limit.
- RSCO = Site-specific Recommended Soil Cleanup Objective for unrestricted use.
- SVOCs = semivolatile organic compounds by USEPA Method 8270
- NA = not applicable.
- ug/kg = micrograms per kilogram.
- J = indicates an estimated value.
- MDL = method detection limit.

*Appendix B-1*  
*Salient Correspondence to NYSDEC*



Jon Fox

01/17/2006 03:34 PM

To: gbmaclea@gw.dec.state.ny.us  
cc: Jeffrey.Hohman@ucb-group.com, Dave.Panipinto@ucb-group.com,  
lford@nixonpeabody.com, cmb18@health.state.ny.us,  
bxputzig@gw.dec.state.ny.us, jalbert@monroecounty.gov,  
Subject: BB2-14 Area Additional Soil Sampling - 755 Jefferson Road Facility,  
Henrietta, NY  
NYSDEC VCP# V00126-8

Hello Greg

Based on our telephone conversation on 4 January 2006, ERM understands that NYSDEC is requesting collection of four surficial soil samples around a small area that was recently excavated by UCB at NYSDEC's request in the vicinity of soil boring BB2-14 at the above-referenced Site. It is our understanding that NYSDEC is requesting collection of these four additional soil samples for further evaluation of surficial soil quality in this area.

It is also our understanding that NYSDEC wants these samples collected from ground surface to two inches below ground surface on each side of the former excavation (total of four samples) and analyzed for semivolatile organic compounds (SVOCs) of potential concern as listed in the NYSDEC-approved Remedial Action Work Plan (RAWP) as well as any other Site-related contaminants that were previously found at this location at concentrations above the Site-specific Recommended Soil Cleanup Objectives (RSCOs) contained in the RAWP. ERM reviewed laboratory analytical results for the surficial soil sample previously collected from soil boring BB2-14 from zero to 1-foot below ground surface. Inorganic elements were not detected in this sample at concentrations above the numerical Site-specific RSCOs with the exception of 0.64 mg/kg of beryllium. The Site-specific RSCO for beryllium is 0.16 mg/kg or "non-detect". However, as previously approved by NYSDEC based on analytical data and technical justification contained in the Building #2 Sump Area (B2SA) Remedial Design Investigation (RDI) Report dated July 2004 and its Addendum Report dated April 2005, the detected concentration of beryllium in this sample is consistent with typical practical quantitation limits (i.e., detection limits) for other soil samples collected from this Site and is not of environmental concern. Therefore, ERM proposes that if this additional confirmatory soil sampling is done, then analysis for inorganic elements of potential concern is not necessary for this additional sampling effort based on existing analytical data and NYSDEC's approval of the B2SA RDI Report and its Addendum Report.

UCB has advised ERM that they are willing to authorize the collection and analyses of the requested additional soil samples based on the understanding that if, as expected, SVOCs related to the bituminous waterproofing material used in on-Site construction are detected in this shallow soil at levels not materially different from those found elsewhere on-Site, the Final Engineering Report (FER) for the B2SA would be approved by NYSDEC without an industrial use-only deed restriction being placed on this portion of the Site. As the brief report on the BB2-14 area soil testing and removal project will document, globules of a black tar-like material similar in appearance to the bituminous material previously found within and beneath the Building #2 floor slab, in sub-floor drains, etc., were observed in soil that was removed. The soil removed was also near a pipeline and a concrete pad. As outlined in the B2SA RDI Report and its Addendum Report, both of which are part of the NYSDEC-approved RAWP for the Site, SVOCs detected in soil in this area are associated primarily with the bituminous waterproofing material used during building construction and maintenance, not with Site operations. Investigation or remediation of construction-related compounds is not contemplated in the Voluntary Cleanup Agreement for this Site, and the additional work requested by NYSDEC in association with BB2-14 is not contained in the NYSDEC-approved RAWP. Libby Ford, representing UCB, and I would like to have a short conference call with you to discuss this understanding, and whether the Department has any disagreement with this concept.

Assuming that an agreement can be reached on this issue, ERM will collect the requested additional data if you still feel it is necessary. ERM will also prepare a brief letter report on the BB2-14 soil investigation and removal action. In order not to delay the submittal of the draft B2SA FER, it is proposed that the text of the draft FER reference that, at the Department's suggestion, the additional investigation and soil removal was carried out. We also propose that the draft FER text will cross-reference an appendix that

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will contain a letter report on the BB2-14 removal action. The appendix will not be submitted with the draft FER but instead will be submitted with the final FER after the results of the additional testing are available and all the results from this project have been integrated into the report.

Thank you for your assistance. I will be contacting you shortly to set a time to discuss the above-proposed approach.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
jon.fox@erm.com

---

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Please visit ERM's web site: <http://www.erm.com>



Jon Fox

01/24/2006 05:23 PM

To: gbmaclea@gw.dec.state.ny.us, cmb18@health.state.ny.us  
cc: bxputzig@gw.dec.state.ny.us, lford@nixonpeabody.com,  
Jeffrey.Hohman@ucb-group.com, Dave.Panipinto@ucb-group.com,  
Ed Hinchey/ERMNE/ERM@ERM, Richard  
Subject: BB2-14 Area Teleconference Summary - NYSDEC VCP# V00126-8

Hello Greg and Charlotte

Libby Ford and I have prepared this summary to document our understandings and agreements derived from the teleconference earlier today.

**Participants:** Charlotte Bethoney (CB-NYSDOH), Greg MacLean (GM-NYSDEC), Bart Putzig (BP-NYSDEC), Libby Ford (LF-Nixon-Peabody for UCB), Jon Fox (JF-ERM), Mike Bogdan (sanofi-aventis - listened in only).

#### Overview:

During the BB2-14 area soil testing and removal project performed on 8 November 2005, globules of a black tar-like material similar in appearance to the bituminous waterproofing material previously found within and beneath the Building #2 floor slab, in sub-floor drains, etc., were observed in soil that was removed. The soil removed was also near a pipeline and a concrete pad. As outlined in the B2SA RDI Report and its Addendum Report, SVOCs detected in soil in this area are associated with the bituminous waterproofing material used during building construction and maintenance, not with Site operations. NYSDEC initially recommended this soil investigation and removal be performed due to concerns that SVOCs detected in this area could come from diesel oil releases and not from the waterproofing material.

We believe that if SVOCs related to the bituminous waterproofing material used in on-Site construction are detected in this shallow soil at levels not materially different from those found elsewhere on-Site, the Final Engineering Report (FER) for the B2SA should be approved without an industrial use-only deed restriction being placed on this portion of the Site. Investigation or remediation of construction-related compounds is not contemplated in the Voluntary Cleanup Agreement for this Site.

If we do shallow confirmatory sampling, we expect to detect SVOCs, and at least some of them are likely to be above the Site-specific Recommended Soil Cleanup Objectives (RSCOs) contained in the NYSDEC-approved Remedial Action Work Plan (RAWP). However, we believe that the SVOCs are due to the waterproofing material and are likely to be found at levels similar to that found beneath and near by blacktopped roads and parking lots, similar to what the United States Geological Survey (USGS) found in the article on polycyclic aromatic hydrocarbons (PAHs) from parking lot run-off that it reported on in the 8/05 issue of Environmental Science and Technology.

#### Discussion:

**GM** - Our concern is if you have SVOCs in shallow soils above the clean-up standards, humans could be exposed to them.

**CB** -- The concern is that you are looking for a "clean" release. NYSDOH still has a problem with the levels in the shallow soil. However, we also realize that similar levels are likely to be found near roadways and where similar construction material was used. Can you document that the material you observed was the same waterproofing type material?

**JF** - We did the same analyses for SVOCs by USEPA Method 8270 as we did for are other confirmatory sampling. We did not analyze these samples by the high resolution fingerprinting method.

**CB** - I think I can turn this into a short call. My management has indicated that we will not require



additional remediation for waterproofing and other construction-related material. If this site was going to be turned into a playground for a daycare we might. But the site is remaining commercial.

LF - So this means that these results will not keep the site from earning a clean release?

CB - Greg?

BP - If the agencies are in agreement that the source of the SVOCs is building material, then this should not prevent a clean release. Because of the main area [i.e. the MCA], the release probably won't come for a number of years.

LF-Will there be a release for the B2SA portion of the site after the B2SA FER is approved?

GM - Typically we only issue one release when the entire site is cleaned up. We will approve the B2SA FER when its completed, but we won't issue the final release until the entire project is done. In limited areas, such as where a portion of a remediation site is being sold, we will issue a release for that portion of the site even if the remediation of the rest of the site has not been completed.

LF-Based on this understanding, ERM can do the additional sampling you all requested.

JF- ERM requests confirmation of the acceptability of submitting the draft FER mentioning the BB2-14 work, but only including a "placeholder" appendix for the report at this time. The BB2-14 report will be submitted and incorporated into the FER after the additional sampling work and laboratory analysis has been completed. GM agreed, but repeated that the FER would not be approved until the BB2-14 report had been submitted.

Thank you for your assistance. Please contact Libby or me if you have any questions or comments.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
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Jon Fox

01/25/2006 04:39 PM

To: gbmaclea@gw.dec.state.ny.us  
cc: Jeffrey.Hohman@ucb-group.com, Dave.Panipinto@ucb-group.com,  
lford@nixonpeabody.com, cmb18@health.state.ny.us,  
bxputzig@gw.dec.state.ny.us, jalbert@monroecounty.gov,  
Subject: BB2-14 Area Soil Sampling @ 755 Jefferson Rd. Site, Henrietta, NY  
NYSDEC VCP# V00126-8

Hello Greg

Per our additional telephone discussions after yesterday's teleconference, please be advised that ERM will be collecting four additional surficial soil samples at the UCB facility on Friday, 27 January 2006. The soil samples will be collected and analyzed as described in the e-mail from ERM to NYSDEC dated 17 January 2006. The samples will be analyzed at the project laboratory (STL-Buffalo) for SVOCs of potential concern by EPA-8270 using NYSDEC's Analytical Services Protocol with Category B deliverables. ERM understands that additional sampling or analysis is not required.

We hope to submit the B2SA FER for review by the end of next week. We also hope to submit the letter report for the BB2-14 area (which will be placed into the B2SA FER as an appendix at the indicated location) by the end of February 2006.

Thanks for your assistance. Please contact me if you have any questions or comments.

Regards,  
Jon

---

Jon S. Fox, P.G.  
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315-445-2554 (telephone)  
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Jon Fox



Jon Fox

01/24/2006 05:23 PM

To: gbmaclea@gw.dec.state.ny.us, cmb18@health.state.ny.us  
cc: bxputzig@gw.dec.state.ny.us, lford@nixonpeabody.com,  
Jeffrey.Hohman@ucb-group.com, Dave.Panipinto@ucb-group.com,  
Ed Hinchey/ERMNE/ERM@ERM, Richard  
Wohaska/ERMNE/ERM@ERM  
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Regards,  
Jon

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Jon S. Fox, P.G.  
Environmental Resources Management  
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DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
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jon.fox@erm.com

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Please visit ERM's web site: <http://www.erm.com>

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*Appendix B-2*  
*Photographic Log*

# PHOTOLOG

Project Name: BB2-14 Soil Excavation

Client Name: UCB

Project No.: 0040628

Prepared By: Nancy Rae Reese



## NOTES

View looking south at the BB2-14 excavation on the west side of building #2. Note various areas with black bituminous-like material in the walls and floor of the excavation.



## NOTES

View looking southeast at the BB2-14 excavation showing soil characteristics, adjacent site features, subsurface conduits encountered, and abundant black bituminous-like material in the excavation.

# PHOTOLOG

Project Name: BB2-14 Soil Excavation

Client Name: UCB

Project No.: 0040628

Prepared By: Nancy Rae Reese



## NOTES

Close-up view of black bituminous-like material in the BB2-14 excavation.



## NOTES

Close-up view of some of the black bituminous-like material removed from the BB2-14 excavation.

**PHOTOLOG**

Project Name: BB2-14 Soil Excavation

Client Name: UCB

Project No.: 0040628

Prepared By: Nancy Rae Reese

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**NOTES**

Another close-up view of black bituminous-like material removed from the BB2-14 excavation.

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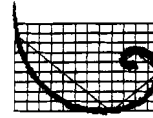
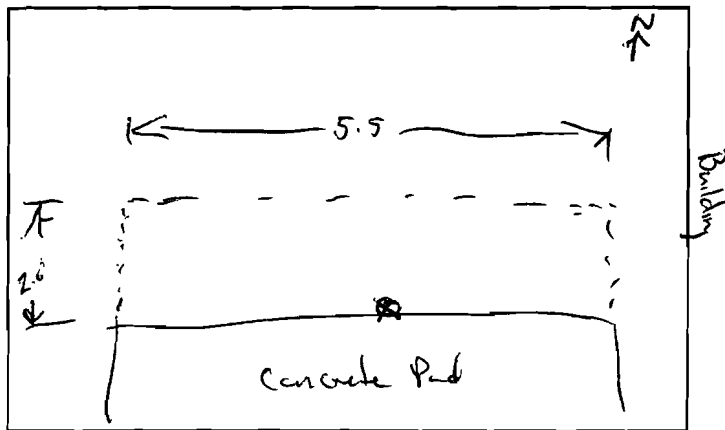
*Appendix B-3*  
*Soil Sampling Records*

# SOIL SAMPLING RECORD

Job Number: 0040628  
Site Name/location: Jefferson Rd / B02-14 area  
Sample ID: UCB- CS01 (18.5)

Date: 9 Nov 05  
Time: 0839  
Sampler(s): TCM

## Sample Location Sketch



ERM

Sample Type/ Methodology/Description:

grab composite  
Sample from trench wall  
18.5' below reference point.  
Medium brown sandy gravel

## Sampling Device

Split Spoon    Hand Auger    ESP    Stainless Steel Spoon    macrocore

## Sample Description

Color(s): Medium Brown  
Texture(s) (Grain Size): Sandy gravel with fines.  
Consistency:    Very Soft    Soft    Firm    Hard    Very Hard  
Structure: Homogeneous    Non-homogeneous    Other:  
Moisture Content:    Dry    Moist    Wet  
Odor: None    Weak    Strong    Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X    Metals    PCBs  
Chloride    Iron    Lead    Cyanide

## Weather

Conditions: Cloudy - no precip.  
Temperature: Low 50's  
Winds: windy from SW

## Comments:

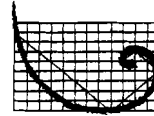
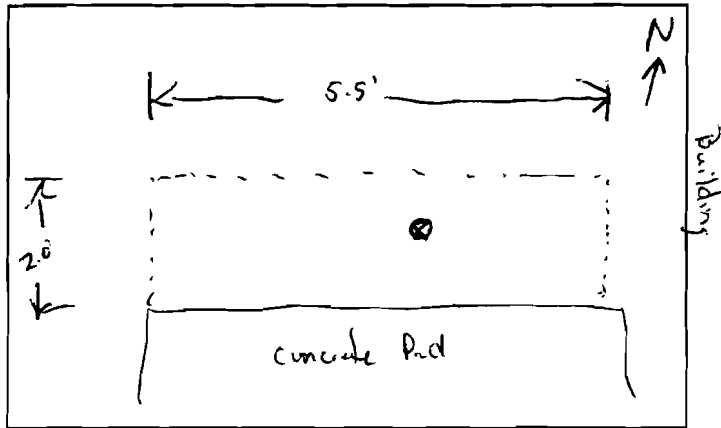
Reference Point elevations Top Concrete generator pad.

# SOIL SAMPLING RECORD

Job Number: 0040628  
 Site Name/location: Jefferson Rd/ BB2-14 area  
 Sample ID: UCB-C502(24)

Date: 8 Nov 05  
 Time: 0840  
 Sampler(s): TLM

## Sample Location Sketch



**ERM**

## Sample Type/ Methodology/ Description:

grab composite  
Sample from bottom of trench  
24" below reference point  
~ 13" north of UCB-C501(18.5)

## Sampling Device

Split Spoon    Hand Auger    ESP    Stainless Steel Spoon    macrocore

## Sample Description

Color(s): yellow brown to brown ~~with~~ <sup>TCM</sup>  
 Texture(s) (Grain Size): Silty-matrix fine gravel  
 Consistency:    Very Soft    Soft    Firm    Hard    Very Hard  
 Structure: Homogeneous    Non-homogeneous    Other:  
 Moisture Content:    Dry    Moist    Wet  
 Odor: None    Weak    Strong    Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X    Metals    PCBs  
 Chloride    Iron    Lead    Cyanide

## Weather

Conditions: Cloudy - no precip.  
 Temperature: Low 50's  
 Winds: windy - SW

## Comments:

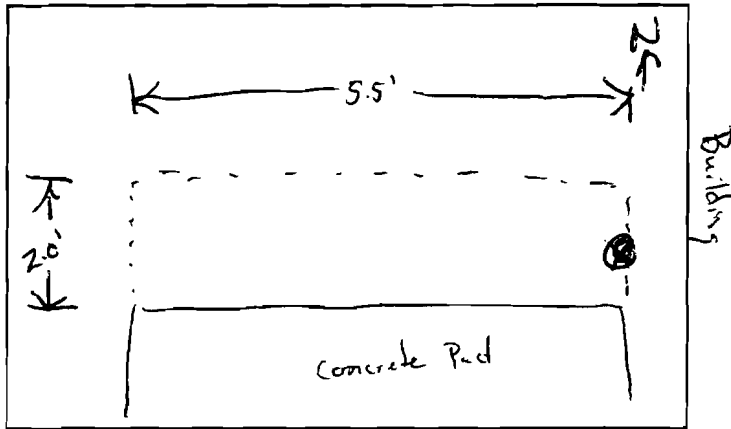
Reference Point elevation - Top concrete generator pad

# SOIL SAMPLING RECORD

Job Number: 0040628  
Site Name/location: Jefferson Rd / BB2-14 area  
Sample ID: UCB - CS03 (16)

Date: 8 Nov 05  
Time: 0845  
Sampler(s): TCM

## Sample Location Sketch



Sample Type/ Methodology/ Description:

grab composite  
East wall of trench - 16"  
below reference point

## Sampling Device

Split Spoon    Hand Auger    ESP    Stainless Steel Spoon    macrocore

## Sample Description

Color(s): Medium brown  
Texture(s) (Grain Size): Sandy gravel with some fines  
Consistency:    Very Soft    Soft    Firm    Hard    Very Hard  
Structure: Homogeneous    Non-homogeneous    Other:  
Moisture Content:    Dry    Moist    Wet  
Odor: None    Weak    Strong    Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X    Metals    PCBs  
Chloride    Iron    Lead    Cyanide

## Weather

Conditions: Cloudy - No precip.  
Temperature: Low 50's  
Winds: windy from SW

## Comments:

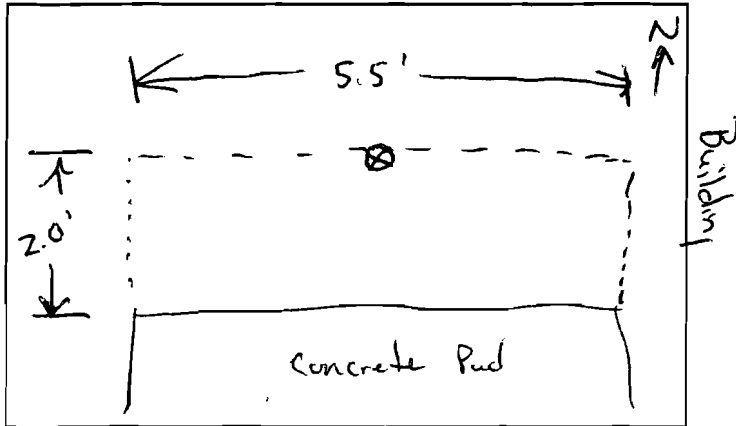
Reference Point - Top concrete generator Pad.

# SOIL SAMPLING RECORD

Job Number: 0040628  
 Site Name/location: Jefferson Rd / BBZ-14 area  
 Sample ID: UCB- C504 (15)

Date: 8 Nov 2005  
 Time: 0847  
 Sampler(s): TCM

## Sample Location Sketch



Sample Type/ Methodology/Description:  
grab composite  
Collected from north wall  
of trench - 15" below reference  
point

## Sampling Device

Split Spoon      Hand Auger      ESP      Stainless Steel Spoon      macrocore

## Sample Description

Color(s): medium brown  
 Texture(s) (Grain Size): Sandy gravel with fines  
 Consistency:      Very Soft      Soft      Firm      Hard      Very Hard  
 Structure: Homogeneous      Non-homogeneous      Other:  
 Moisture Content:      Dry      Moist      Wet  
 Odor:      None      Weak      Strong      Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X      Metals      PCBs  
 Chloride      Iron      Lead      Cyanide

## Weather

Conditions: Cloudy - No Precip.  
 Temperature: Low 50's  
 Winds: windy - SW

## Comments:

Reference Point elevation - Top of concrete generator Pad

# SOIL SAMPLING RECORD

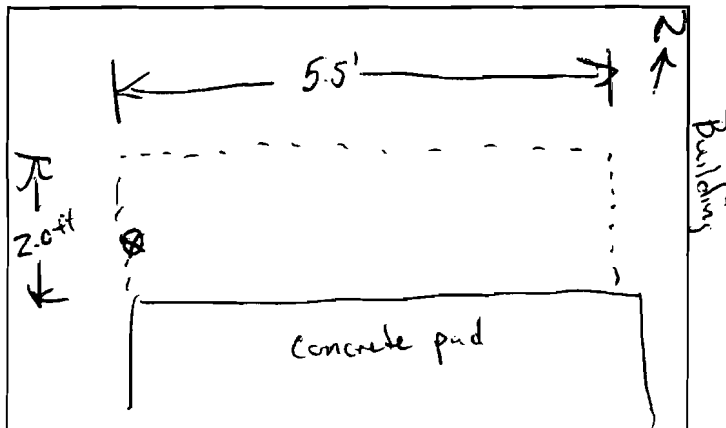
Job Number: 0040629  
 Site Name/location: Jefferson Rd / BB2-14 area  
 Sample ID: UCB- C505 (19)

Date: 8 Nov 05  
 Time: 0852  
 Sampler(s): Turn

## Sample Location Sketch



**ERM**



Sample Type/ Methodology/Description:

grab composite  
collected from west end  
of trench - 19" below  
reference point.  
Removed loose material from wall first

## Sampling Device

Split Spoon      Hand Auger      ESP      Stainless Steel Spoon      macrocore

## Sample Description

Color(s): Medium Brown  
 Texture(s) (Grain Size): Sandy gravel with fines  
 Consistency:      Very Soft      Soft      Firm      Hard      Very Hard  
 Structure: Homogeneous      Non-homogeneous      Other:  
 Moisture Content:      Dry      Moist      Wet  
 Odor: None      Weak      Strong      Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X      Metals      PCBs  
 Chloride      Iron      Lead      Cyanide

## Weather

Conditions: Cloudy - No precip.  
 Temperature: Low 50's  
 Winds: windy from SW

## Comments:

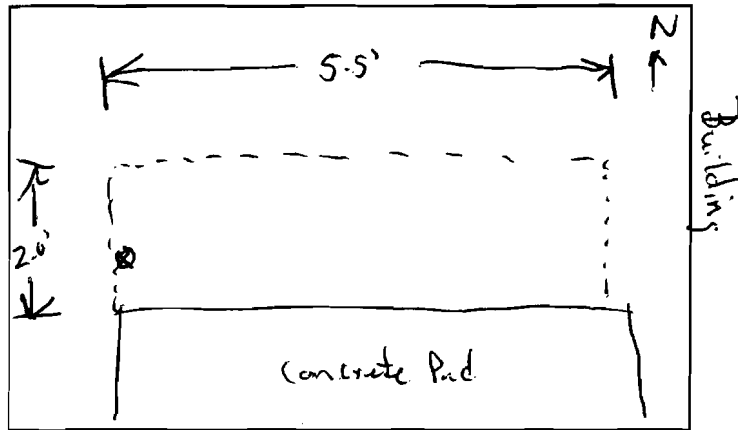
Reference point elevation - Top of Generator Pad  
Duplicate collected here UCB- C506 (20)

# SOIL SAMPLING RECORD

Job Number: 0040628  
 Site Name/location: Jefferson Rd / BBZ-14 area  
 Sample ID: UCB-CS06(20)

Date: 9 Nov 05  
 Time: 0852  
 Sampler(s): TLM

## Sample Location Sketch



Sample Type/ Methodology/Description:

grab composite  
Collected just below UCB-CS05(19)  
as a dupe. Sample collected  
20" below reference point

## Sampling Device

Split Spoon      Hand Auger      ESP      Stainless Steel Spoon      macrocore

## Sample Description

Color(s): Medium Brown  
 Texture(s) (Grain Size): Sandy gravel with fines  
 Consistency:      Very Soft      Soft      Firm      Hard      Very Hard  
 Structure: Homogeneous      Non-homogeneous      Other:  
 Moisture Content:      Dry      Moist      Wet  
 Odor: None      Weak      Strong      Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X      Metals      PCBs  
 Chloride      Iron      Lead      Cyanide

## Weather

Conditions: Cloudy - No Precip.  
 Temperature: Low 50's  
 Winds: windy from SW

## Comments:

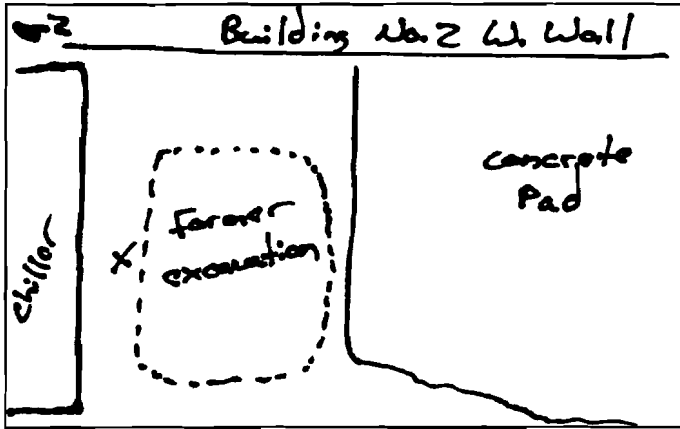
Reference Point Elevation - Top of Generator Pad  
Sample is duplicate of UCB-CS05(19).

# SOIL SAMPLING RECORD

Job Number: 0040628  
Site Name/location: UCB Facility - Rochester, NY  
Sample ID: UCB-SS-N (0'-2')

Date: 27 Jan 06  
Time: 1330  
Sampler(s): R. Sents

## Sample Location Sketch



ERM

Sample Type/ Methodology/ Description:

grab composite

## Sampling Device

Split Spoon    Hand Auger    ESP    Stainless Steel Spoon    macrocore

## Sample Description

Color(s): med. brown

Texture(s) (Grain Size): silt to lg. gravel (fill material)

Consistency:    Very Soft    Soft    Firm    Hard    Very Hard

Structure: Homogeneous    Non-homogeneous    Other:

Moisture Content:    Dry    Moist    Wet

Odor: None    Weak    Strong    Describe Odor -

## Analyses

VOCs \_\_\_\_\_ SVOCs X    Metals    PCBs  
Chloride    Iron    Lead    Cyanide

## Weather

Conditions: 33°f 5

Temperature: clear

Winds: 0-5mph out of South

## Comments:

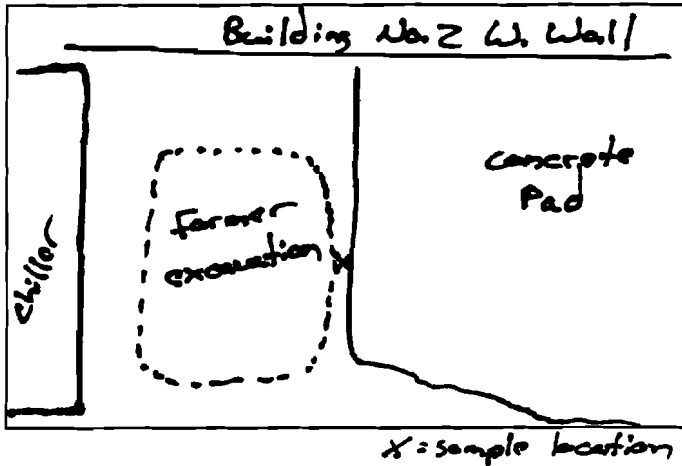


# SOIL SAMPLING RECORD

Job Number: 0040628  
 Site Name/location: UCB facility - Rochester, NY  
 Sample ID: UCB-SS-S (0'-2')

Date: 27 Jan 06  
 Time: 13:55  
 Sampler(s): R. Sontz

## Sample Location Sketch



**ERM**

Sample Type/ Methodology/ Description:

grab composite

## Sampling Device

Split Spoon      Hand Auger      ESP      Stainless Steel Spoon      macrocore

## Sample Description

Color(s): med. brown

Texture(s) (Grain Size): silt to med. sand, w/ organics (fill material)

Consistency:      Very Soft      Soft      Firm      Hard      Very Hard

Structure: Homogeneous      Non-homogeneous      Other:

Moisture Content:      Dry      Moist      Wet

Odor: None      Weak      Strong      Describe Odor -

## Analyses

VOCs \_\_\_\_\_      SVOCs X      Metals      PCBs  
 Chloride      Iron      Lead      Cyanide

## Weather

Conditions: 33°F

Temperature: clear

Winds: 0-5 mph out of South

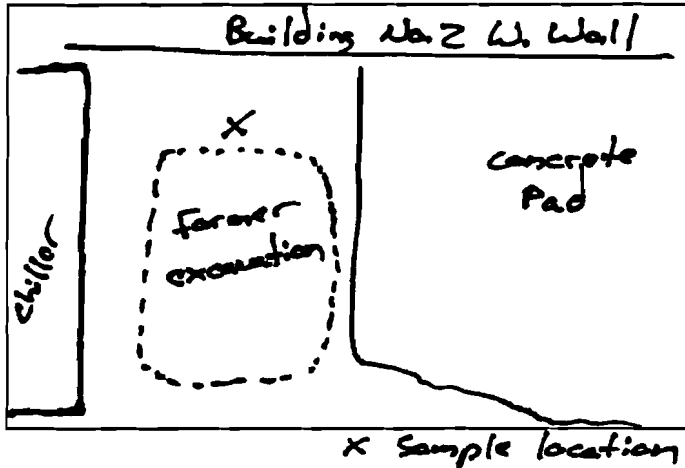
## Comments:

# SOIL SAMPLING RECORD

Job Number: 0040628  
Site Name/location: UCB Facility - Rochester, NY  
Sample ID: UCB-SS-E (0'-2')

Date: 27 Jan 06  
Time: 14:10  
Sampler(s): R. Sontz

## Sample Location Sketch



Sample Type/ Methodology/Description:

grab composite

## Sampling Device

Split Spoon    Hand Auger    ESP    Stainless Steel Spoon    macrocore

## Sample Description

Color(s): med. brown

Texture(s) (Grain Size): fine sand to coarse sand

Consistency: Very Soft    Soft    Firm    Hard    Very Hard

Structure: Homogeneous    Non-homogeneous    Other:

Moisture Content: Dry    Moist    Wet

Odor: None    Weak    Strong    Describe Odor -

## Analyses

VOCs \_\_\_\_\_    SVOCs X    Metals    PCBs  
Chloride    Iron    Lead    Cyanide

## Weather

Conditions: 33°F

Temperature: clear

Winds: 0-5mph out of South

## Comments:

\_\_\_\_\_  
\_\_\_\_\_

# SOIL SAMPLING RECORD

Job Number: 0040628

Date: 27 Jan 06

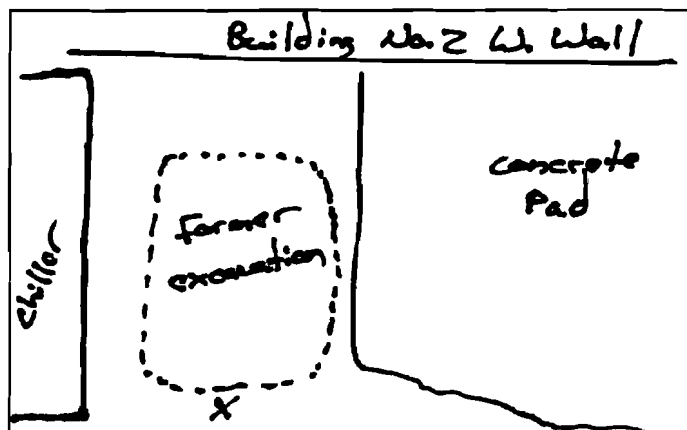
Site Name/location: UCB facility - Rochester, NY

Time: 13:45

Sample ID: UCB-SS-W (0'-2')

Sampler(s): R. Sents

## Sample Location Sketch



X = sample location



ERM

Sample Type/ Methodology/Description:

grab composite

## Sampling Device

Split Spoon      Hand Auger      ESP      Stainless Steel Spoon      macrocore

## Sample Description

Color(s): mod. brown

Texture(s) (Grain Size): fine sand to med. gravel (fill material)

Consistency:      Very Soft      Soft      Firm      Hard      Very Hard

Structure: Homogeneous      Non-homogeneous      Other:

Moisture Content:      Dry      Moist      Wet

Odor: None      Weak      Strong      Describe Odor -

## Analyses

VOCs \_\_\_\_\_      SVOCs X      Metals      PCBs  
Chloride      Iron      Lead      Cyanide

## Weather

Conditions: 33°F

Temperature: clear

Winds: 0-5mph out of South

## Comments:

*Appendix B-4*  
*Data Usability Summary Report*

**DATA USABILITY SUMMARY REPORT (DUSR)  
755 JEFFERSON ROAD FACILITY  
HENRIETTA, NEW YORK  
BB2-14 EXCAVATION CONFIRMATION SOIL SAMPLES  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
SEVERN TRENT LABORATORIES (STL), BUFFALO, NEW YORK  
JOB NUMBER A05-C730**

***Deliverables:***

The above referenced data package for six (6) soil samples and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) samples contains all the required deliverables as stipulated under the 2000 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B deliverables. The sample specific analysis performed included Semivolatile Organic Compound (VOC) analysis in accordance with USEPA SW-846 Method 8270C for the following five (5) project specific compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, and Chrysene following "Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions." The data have been evaluated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-22, Revision 2, June 2001: Validating Semivolatile Organic Compounds by SW-846 Method 8270C, and the reviewer's professional judgment.

This report pertains to the following soil samples collected on 08 November 2005:

*Samples*

UCB-CS01 (18.5)  
UCB-CS02 (24)  
UCB-CS03 (16)  
UCB-CS04 (15)  
UCB-CS05 (19)  
UCB-CS06 (20)

*QC Samples*

UCB-CS01 (18.5) MS/MSD

***Organics***

The following items/criteria were reviewed:

- Case narrative and deliverables compliance
- Holding times and sample preservation
- Surrogate compound recoveries, summary and data
- MS/MSD results, recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above have been judged to be in compliance with the analytical methods and with the ASP criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

### *Semivolatiles*

- The laboratory analyzed the MS/MSD sample, however since the project specific compound list does not include any of the method specific spiking compounds the results of the MS/MSD have not been reported by the laboratory. It is the reviewer's professional opinion that the data are still valid and useable and no qualification is required.
- The percent recovery (%R) for the surrogate compound 2,4,6-tribromophenol was slightly below QC limits for the MSD analyzed on sample UCB-CS01 (18.5) (48%; QC limit 53-132%). Data are not qualified with respect to surrogate recovery unless two or more semivolatile surrogates, within the same fraction, are out of specification. No qualification of the sample data is therefore required. It should be noted that all surrogate %R were within QC limits for the unspiked sample and the MS analysis.

*Package Summary:*

All data are valid and usable with qualifications as noted in this review.

Signed:



Andrew J. Coenen  
ERM QA/QC Officer

Dated: 21 December 2005

METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

12/320

Client No.

UCB-BLACK(23)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: REONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C73007

Sample wt/vol: 30.18 (g/mL) G Lab File ID: U08671.RR

Level: (low/med) LOW Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 10 decanted: (Y/N) N Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/17/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
56-55-3	Benzo (a) anthracene		92	J
205-99-2	Benzo (b) fluoranthene		120	J
207-08-9	Benzo (k) fluoranthene		45	J
50-32-8	Benzo (a) pyrene		90	J
218-01-9	Chrysene		93	J



METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

13/320

Client No.

UCB-CS01 (18.5)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A5C73001

Sample wt/vol: 30.22 (g/mL) G

Lab File ID: U08575.RR

Level: (low/med) LOW

Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/14/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
56-55-3	Benzo (a) anthracene		420	
205-99-2	Benzo (b) fluoranthene		510	
207-08-9	Benzo (k) fluoranthene		190	J
50-32-8	Benzo (a) pyrene		370	J
218-01-9	Chrysene		400	

METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

14/320

Client No.

UCB-CS02 (24)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: REQNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C73002

Sample wt/vol: 30.92 (g/mL) G Lab File ID: U08576.RR

Level: (low/med) LOW Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
56-55-3	Benzo (a) anthracene		240	J
205-99-2	Benzo (b) fluoranthene		290	J
207-08-9	Benzo (k) fluoranthene		110	J
50-32-8	Benzo (a) pyrene		220	J
218-01-9	Chrysene		220	J

METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

15/320

Client No.

UCB-CS03 (16)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C73003

Sample wt/vol: 30.55 (g/mL) G Lab File ID: U08577.RR

Level: (low/med) LOW Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
56-55-3-----	Benzo (a) anthracene		1000	
205-99-2-----	Benzo (b) fluoranthene		1400	
207-08-9-----	Benzo (k) fluoranthene		1500	
50-32-8-----	Benzo (a) pyrene		780	
218-01-9-----	Chrysene		940	

METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

16/320

Client No.

UCB-CS04 (15)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C73004

Sample wt/vol: 30.11 (g/mL) G Lab File ID: U08578.RR

Level: (low/med) LOW Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
56-55-3-----	Benzo (a) anthracene		540	
205-99-2-----	Benzo (b) fluoranthene		640	
207-08-9-----	Benzo (k) fluoranthene		250	J
50-32-8-----	Benzo (a) pyrene		480	
218-01-9-----	Chrysene		500	

METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

17/320

Client No.

UCB-CS05(19)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C73005

Sample wt/vol: 30.52 (g/mL) G Lab File ID: U08579.RR

Level: (low/med) LOW Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
56-55-3	Benzo (a) anthracene		87	J
205-99-2	Benzo (b) fluoranthene		120	J
207-08-9	Benzo (k) fluoranthene		39	J
50-32-8	Benzo (a) pyrene		80	J
218-01-9	Chrysene		91	J

METHOD 8270 - 5 COMPOUNDS  
ANALYSIS DATA SHEET

18/320

Client No.

UCB-CS06 (20)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C73006

Sample wt/vol: 30.78 (g/mL) G Lab File ID: U08580.RR

Level: (low/med) LOW Date Samp/Recv: 11/08/2005 11/08/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 11/10/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/14/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
56-55-3-----	Benzo (a) anthracene		110	J
205-99-2-----	Benzo (b) fluoranthene		150	J
207-08-9-----	Benzo (k) fluoranthene		51	J
50-32-8-----	Benzo (a) pyrene		110	J
218-01-9-----	Chrysene		120	J

**DATA USABILITY SUMMARY REPORT (DUSR)  
755 JEFFERSON ROAD FACILITY  
HENRIETTA, NEW YORK  
BB2-14 SURFACE SOIL SAMPLES  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
SEVERN TRENT LABORATORIES (STL), BUFFALO, NEW YORK  
JOB NUMBER A06-1058**

***Deliverables:***

The above referenced data package for four (4) soil samples and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) samples contains all the required deliverables as stipulated under the 2000 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B deliverables. The sample specific analysis performed included Semivolatile Organic Compound (VOC) analysis in accordance with USEPA SW-846 Method 8270C for the following twenty-two (22) project specific compounds: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, carbazole, chrysene, dibenzo(a,h)anthracene, dibenzofuran, di-n-butylphthalate, di-n-octylphthalate, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene following "Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions." The data have been evaluated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-22, Revision 2, June 2001: Validating Semivolatile Organic Compounds by SW-846 Method 8270C, and the reviewer's professional judgment.

This report pertains to the following soil samples collected on 27 January 2006:

*Samples*

UCB-SS-E (0-2)  
UCB-SS-N (0-2)  
UCB-SS-S (0-2)  
UCB-SS-W (0-2)

*QC Samples*

UCB-SS-W (0-2) MS/MSD

## *Organics*

The following items/criteria were reviewed:

- Case narrative and deliverables compliance
- Holding times and sample preservation
- Surrogate compound recoveries, summary and data
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Matrix Spike Blank (MSB) results, recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above have been judged to be in compliance with the analytical methods and with the ASP criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

## *Semivolatiles*

- All samples were analyzed at ten-fold (10x) dilutions based on the sample matrix. The laboratory has reported only this analysis as the dilutions were justified and most target compounds were detected in the samples. No qualification of the sample data is required, however the data user should be aware of elevated reporting limits for a few non-detected target compounds.
- The following table list MS/MSD percent recoveries (%R) for sample UCB-SS-W (0-2) above QC criteria. These elevated %R can be attributed to the elevated presence of the spiking compounds in the unspiked sample. Qualification of data is not performed based on MS/MSD results alone. Results for these compounds in the unspiked sample result only will be qualified as estimated and qualified "J". All relative percent differences (RPDs) were within QC limits in the MS/MSD and all %R were within QC limits for the associated MSB.




Compound	MS %R	MSD %R	QC Limits
benzo(a)anthracene	141	141	81-130
benzo(b)fluoranthene	138	OK	78-135
benzo(k)fluoranthene	OK	152	52-145
benzo(a)pyrene	136	142	78-125
chrysene	151	155	55-149
fluoranthene	174	185	56-141
phenanthrene	152	137	63-130

- The following table lists blanks, blank contaminants with concentrations and the samples associated with the blanks. Common laboratory phthalate contaminants such as bis(2-ethylhexyl)phthalate are negated in a sample if the sample concentration is less than or equal to ten times (10x) the highest associated blank concentration. For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank	Contaminant	Concentration (Action Level)	Associated Samples
SBLK12	bis(2 ethylhexyl)phthalate	30J (300 µg/kg)	All samples in A06-1058

**Package Summary:**

All data are valid and usable with qualifications as noted in this review.

Signed:   
 Andrew J. Coenen  
 ERM QA/QC Officer

Dated: 20 February 2006

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

UCB-SS-E (0-2)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A6105804Sample wt/vol: 30.58 (g/mL) GLab File ID: U10340.RRLevel: (low/med) LOWDate Samp/Recv: 01/27/2006 01/28/2006% Moisture: 11 decanted: (Y/N) NDate Extracted: 02/01/2006Concentrated Extract Volume: 1000 (uL)Date Analyzed: 02/03/2006Injection Volume: 1.00 (uL)Dilution Factor: 10.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene		750	J
208-96-8-----	Acenaphthylene		3600	U
120-12-7-----	Anthracene		1000	J
56-55-3-----	Benzo (a) anthracene		3400	J
205-99-2-----	Benzo (b) fluoranthene		5500	
207-08-9-----	Benzo (k) fluoranthene		5700	
191-24-2-----	Benzo (ghi) perylene		1700	J
50-32-8-----	Benzo (a) pyrene		3300	J
117-81-7-----	Bis (2-ethylhexyl) phthalate		3600	U
86-74-8-----	Carbazole		600	J
218-01-9-----	Chrysene		3200	J
53-70-3-----	Dibenzo (a, h) anthracene		460	J
132-64-9-----	Dibenzofuran		240	J
84-74-2-----	Di-n-butyl phthalate		3600	U
117-84-0-----	Di-n-octyl phthalate		3600	U
206-44-0-----	Fluoranthene		7700	
86-73-7-----	Fluorene		540	J
193-39-5-----	Indeno (1, 2, 3-cd) pyrene		1500	J
91-57-6-----	2-Methylnaphthalene		3600	U
91-20-3-----	Naphthalene		3600	U
85-01-8-----	Phenanthrene		4500	
129-00-0-----	Pyrene		5600	



METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

UCB-SS-S (0-2)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A6105803Sample wt/vol: 30.32 (g/mL) GLab File ID: U10339.RRLevel: (low/med) LOWDate Samp/Recv: 01/27/2006 01/28/2006% Moisture: 32 decanted: (Y/N) NDate Extracted: 02/01/2006Concentrated Extract Volume: 1000 (uL)Date Analyzed: 02/03/2006Injection Volume: 1.00 (uL)Dilution Factor: 10.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		710	J
208-96-8	Acenaphthylene		4800	U
120-12-7	Anthracene		1800	J
56-55-3	Benzo (a) anthracene		6400	
205-99-2	Benzo (b) fluoranthene		8700	
207-08-9	Benzo (k) fluoranthene		2100	J
191-24-2	Benzo (ghi) perylene		2400	J
50-32-8	Benzo (a) pyrene		5900	
117-81-7	Bis (2-ethylhexyl) phthalate	4800	<del>310</del>	<del>J</del> U
86-74-8	Carbazole		1100	J
218-01-9	Chrysene		6800	
53-70-3	Dibenzo (a,h) anthracene		760	J
132-64-9	Dibenzofuran		370	J
84-74-2	Di-n-butyl phthalate		4800	U
117-84-0	Di-n-octyl phthalate		4800	U
206-44-0	Fluoranthene		12000	
86-73-7	Fluorene		710	J
193-39-5	Indeno (1,2,3-cd) pyrene		2400	J
91-57-6	2-Methylnaphthalene		4800	U
91-20-3	Naphthalene		350	J
85-01-8	Phenanthrene		7000	
129-00-0	Pyrene		9200	

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

UCB-SS-W (0-2)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A6105802

Sample wt/vol: 30.56 (g/mL) G

Lab File ID: U10336.RR

Level: (low/med) LOW

Date Samp/Recv: 01/27/2006 01/28/2006

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 02/01/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 02/03/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

83-32-9-----	Acenaphthene	230	J
208-96-8-----	Acenaphthylene	3600	U
120-12-7-----	Anthracene	580	J
56-55-3-----	Benzo (a) anthracene	2800	J
205-99-2-----	Benzo (b) fluoranthene	4300	
207-08-9-----	Benzo (k) fluoranthene	990	J
191-24-2-----	Benzo (ghi) perylene	1500	J
50-32-8-----	Benzo (a) pyrene	2800	J
117-81-7-----	Bis (2-ethylhexyl) phthalate	3600	U
86-74-8-----	Carbazole	350	J
218-01-9-----	Chrysene	3000	J
53-70-3-----	Dibenzo (a, h) anthracene	410	J
132-64-9-----	Dibenzofuran	3600	U
84-74-2-----	Di-n-butyl phthalate	3600	U
117-84-0-----	Di-n-octyl phthalate	3600	U
206-44-0-----	Fluoranthene	5500	
86-73-7-----	Fluorene	230	J
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	1400	J
91-57-6-----	2-Methylnaphthalene	3600	U
91-20-3-----	Naphthalene	3600	U
85-01-8-----	Phenanthrene	2600	J
129-00-0-----	Pyrene	4300	

*Appendix B-5*  
*Non-Hazardous Waste Manifest*

Please print or type  
Form designed for use on a 12 inch type writer

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.  
**NYD 002219756**

Manifest Doc. No.  
**00136**

2. Page 1  
of 1

3. Generator's Name and Mailing Address  
**ULS MANUFACTURING, INC**  
**585-274-5819**  
**755 JEFFERSON ROAD**  
**HENRIETTA, NY 14623**

**NYD 002219756**  
**SAME**

4. Generator's Phone ( )  
**585-274-5819**

6. US EPA ID Number  
**NYD986903904**

A. Transporter's Phone  
**716.695.6720**

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
**American Recyclers Company**  
**177 Sales Ave**  
**Tonawanda, NY 14150**

10. US EPA ID Number  
**NYR00030809**

C. Facility's Phone  
**716.695.6720**

11. Waste Shipping Name and Description

12. Containers  
No. Type  
13. Total  
Quantity  
14. Unit  
Wt/Vol

a. **Non-RCRA, Non-D.O.T. Regulated Soil**

**0040 mo 2000 P**

b.

c.

d.

D. Additional Descriptions for Materials Listed Above  
**Also File:**  
**A - VCP# C-**  
**B - V00126-80**

E. Handling Codes for Wastes Listed Above  
**A-1 C-**  
**B- D-**

15. Special Handling Instructions and Additional Information

**A - A-1200**  
**B-**  
**C-**  
**D-**

**24 Hour Emergency Contact:**  
**INFOTRAC (Caller Must ID ERG) 800-535-5053**  
**Consult ERG:**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **Jeffrey J. Hohman** Signature: *Jeffrey J. Hohman* Month Day Year: **01/2006**

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name: **Michael LeBaron Jr** Signature: *Michael LeBaron Jr* Month Day Year: **01/2006**

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Month Day Year:

*Appendix C*  
*Technical Submittals*





## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

Submittal Status: **APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **02-Sep-05**  
Reviewed By: **Jon S. Fox** Date: **21-Sep-05**

---

**Submittal/ Specification No.: 11**  
**Contractor's Submittal No.: 11**  
**Submittal Name:** CDF No Flyash Pumpable  
**Manufacturer/Supplier:** Manitou Concrete

Condition: No compressive strength was provided in the submittal. This is satisfactory provided that the wales remain in place and are buried in the backfill. If a decision is made to remove the wales, the provision must be made to assure that the backfill provides sufficient strength at the time of each wale removal.

Submittal No. 11 dated 31 August 2005 is approved as noted based on the review and approval of the New York State Department of Environmental Conservation (for chemical properties) and Hartman Engineering (for engineering properties).

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	11
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	08/31/05
PHONE:	585-889-8800	FAX: 585-889-6008		

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		Product Name: CDF No Flyash Pumpable	
Supplier Name:	Manitou Concrete	Manufacturer:	Manitou Concrete
Address:	120 Jefferson Rd Rochester NY 14623	Address:	120 Jefferson rd Rochester NY 14623
Phone:	585-424-6410	Fax:	585-424-1646
Phone:	585-424-6410	Fax:	585-424-1646
REFERENCES:	Section No.(s)	Drawing No.(s)	
	Part/Paragraph No.	Detail Reference No.	

<b>ENGINEER'S ACTION</b>		<b>CONTRACTOR'S APPROVAL STAMP</b>	
<b>SHOP DRAWING REVIEW</b>			
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.	
<input type="checkbox"/>	Approved as Corrected		
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.	
<input type="checkbox"/>	Rejected		
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		RECEIVED STAMP DATE	
APPROVED BY DESIGN ENGINEER Richard J. Hartman 9/2/05  By _____ Date _____			



SINCE 1921

RECEIVED

JUN 25 2006

100 RIVER ROAD  
PO BOX 900  
SCOTTSVILLE, NEW YORK 14546  
585-889-8800  
FAX 585-889-6008

Project No. 0016744  
"REFERENCES"  
Sent by JSE  
EPM - Northeast  
Sam A. Arant's

Jon,

Here is THE mix design for The  
Flexible Fill from Manitou concrete.  
NO FLYASH

Jay

Manitou Concrete  
1260 JEFFERSON ROAD  
ROCHESTER, NY 14623  
PHONE 585-424-6410 FAX 585-424-1549



**SUBMITTAL**

Original

Revised

Additional

TO: 991131  
WARD, C.P. INC.  
100 RIVER ROAD  
SCOTTSVILLE, NY 14546

FROM:  
John Topping  
Sales Manager

ATTN:  
Jay D. Fax: 889-6008

DATE:  
7/22/2005

PROJECT:  
UCS / Jefferson Rd

**General Information**

MIX ID: FNFP3 DESCRIPTION: GDF No Flyash Pumpable  
USE:  
STRENGTH: NA psi in 28 days (When tested in accordance with ASTM C31, C39 & C511)

**Materials & Proportions**

100 lbs./CY Cement ASTM C150  
1400 lbs./CY (SSD) Manitou Intermediate Aggregate ASTM C-33  
1670 lbs./CY (SSD) Concrete Sand ASTM C-33  
350 +/- 10 lbs./CY of Water  
as required per CY of AEA ASTM C260

**Specifications**

6.00 +/- 6.00 inches slump (When tested in accordance with ASTM C143)  
6.00 +/- 6.00 percent air entrainment (When tested in accordance with ASTM C173 or C204)

0.00 estimated w/c

All testing should be performed by a testing laboratory meeting the criteria of ASTM C1077 and in accordance with applicable ASTM or ACI standards

**Special Specification Requirements**

0

Acceptance of this submittal entitles Manitou Concrete to notification and copies of all inspection results.



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager: **Mr. Kenneth Stewart**  
Fax Number: **585-889-6008**

Submittal Return Date: 17 Nov. - 05

**Submittal Status: APPROVED AS NOTED**

Reviewed By: Ernie Sweet/David W. Myers Date: 17 Nov. - 05

---

**Submittal/ Specification No.: 12**  
**Contractor's Submittal No.: 12**  
**Submittal Name: Exhaust Ventilation Technique**  
**Manufacturer/Supplier: CP Ward**

1. Submittal No. 12 dated 26 August 2005 is approved.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	12
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	0826/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Product data    | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data         |
| <input type="checkbox"/> Sample          | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                          |
| <input type="checkbox"/> Color Selection | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                             |
| <input type="checkbox"/> Schedule        | <input type="checkbox"/> Performance data | <input checked="" type="checkbox"/> Other – exhaust ventlation |

**DESCRIPTION OF SUBMITTAL:**

Supplier Name:		Product: Name:	
Address:		Manufacturer:	
Phone:		Address:	
Fax:		Phone:	
		Fax:	

**REFERENCES:**

Section No.(s)	Drawing No.(s)
Part/Paragraph No.	Detail Reference No.

**ENGINEER'S ACTION**

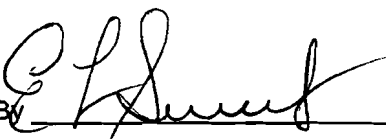
**CONTRACTOR'S APPROVAL STAMP**

**SHOP DRAWING REVIEW**

<input checked="" type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.
<input type="checkbox"/>	Approved as Corrected	
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.
<input type="checkbox"/>	Rejected	

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.

**RECEIVED STAMP DATE**

By 

Date: 9/30/05



<jayd@cpward.com>  
08/26/2005 04:25 PM

To: NancyRae.Reese@erm.com  
cc:  
Subject: Submittal 12

**Nancy Rea,**

I hope this will do..... Jay

**Equipment and Methods**

A floor saw, compressor and jack hammers will be used to brake up the existing concrete floor. Hand tools including picks and shovels and a jack hammer will be used to excavate the dirt. Concrete debris and soils removed from the excavation will be transported to the bucket of a front end loader using an electric conveyer. The loader will transport the material to a lined roll-off located at the rear of the building. Rigging equipment including straps and chain-fall will be used to maneuver shoring materials and the new sump pit into place. Hand tools and welding equipment will be utilized to secure the shoring system into place.

An engineered shoring system as described in the contract documents will be installed in stages as the depth of the excavation increases. Each stage will be fully installed before the next phase of the excavation may proceed. The competent person, Jay DeWispelaere, will monitor the excavation to ensure the shoring system and especially the unprotected sections below the shoring adequately protect our employees. Spoils from the excavation will be removed using buckets and a winch system. Spoils will be kept moist to reduce dust levels to below the established PEL. Mechanical ventilation system exhausting welding fumes to the outside will be necessary during the excavation and shoring phase. Exhaust air will pass through a HEPA filter to ensure metal contaminated dust does not reach the outside environment. The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer. If you cannot, please ask your system administrator for assistance.

----- File information -----  
File: ERM Submittal Cover Sheet 12.doc  
Date: 26 Aug 2005, 16:22  
Size: 77824 bytes.  
Type: Unknown



ERM Submittal Cover Sheet 12.doc



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager: **Mr. Kenneth Stewart**  
Fax Number: **585-889-6008**

Submittal Return Date: **27-Sep-05**

**Submittal Status: APPROVED**

Reviewed By: **Jon S. Fox**                      Date: **27-Sep-05**  
Reviewed By:                                      Date:

---

**ERM Submittal Number: 14**  
**Contractor's Submittal Number: 14**  
**Submittal Name: New Sump**  
**Manufacturer/Supplier: Corrosion Products and Equipment**  
**Albany, NY**

1. This submittal is approved "as is" based on specifications provided in correspondence from CP Ward dated 9 September 2005 and the review and approval of UCB Manufacturing, Inc. (UCB) documented in e-mail correspondence from Mr. Dave Panipinto of UCB dated 9 September 2005 and Mr. Loren Keim of UCB dated 12 September 2005.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	14
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	09/08/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		Product: Name:	New Sump	
Supplier Name:	Corrosion Products & Equipment		Manufacturer:	C.P. Ward
Address:	Albany , NY		Address:	100 River Rd. Scottsville, NY
Phone:		Fax:		
		Phone:	585-889-8800	Fax:
<b>REFERENCES:</b>	Section No.(s)	4	Drawing No.(s)	
	Part/Paragraph No.	1.0 - D - 4	Detail Reference No.	

<b>ENGINEER'S ACTION</b>			<b>CONTRACTOR'S APPROVAL STAMP</b>	
SHOP DRAWING REVIEW				
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.		
<input type="checkbox"/>	Approved as Corrected			
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.		
<input type="checkbox"/>	Rejected			
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.			RECEIVED STAMP DATE	
By _____ Date _____				



Jon Fox  
09/29/2005 05:03 PM

To: Melissa Smith/ERMNE/ERM@ERM  
cc:  
Subject: Fw: New Sump

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
jon.fox@erm.com

----- Forwarded by Jon Fox/ERMNE/ERM on 09/29/2005 05:03 PM -----



""  
<jayd@cpward.com>  
09/09/2005 06:29 AM

To: john.kuhn@erm.com  
cc: jon.fox@erm.com, NancyRae.Reese@erm.com,  
Hartman@hartmanengineering.com  
Subject: New Sump

Goodmorning,

I'm submitting for your consideration the following.

- **The new sump to be made of HDPE pipe with an extrusion welded plug in one end forming the bottom**
  - **Outside dia. 42"                      Wall thickness 1.292"**
  - **Materials in accordance with ASTM D 3350**
- The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer. If you cannot, please ask your system administrator for assistance.

----- File information -----  
File: submittal cover sheet 14.doc  
Date: 9 Sep 2005, 6:28  
Size: 77824 bytes.  
Type: Unknown



submittal cover sheet 14.doc ----- Forwarded by Jon Fox/ERMNE/ERM on 09/29/2005 05:03 PM -----



"Panipinto Dave  
(ROC)"  
<Dave.Panipinto@ucb-  
group.com>  
09/09/2005 01:48 PM

To: "Jon.Fox@erm.com" <Jon.Fox@erm.com>  
cc:  
Subject: RE: New Sump for Room 24

Jon, The summittal is fine from my perspective. Loren will be back on Monday and I would like his response. Dave

-----Original Message-----

**From:** Jon.Fox@erm.com [mailto:Jon.Fox@erm.com]  
**Sent:** Friday, September 09, 2005 12:21 PM  
**To:** Dave.Panipinto@ucb-group.com; loren.keim@ucb-group.com

**Cc:** Michael.Bogdan@sanofi-aventis.com; charles.miller@sanofi-aventis.com;  
Quinn.Lewis@erm.com; Richard.Wohaska@erm.com; Jeffrey.Hohman@ucb-group.com;  
lford@nixonpeabody.com; Ed.Hinchey@erm.com; John.Kuhn@erm.com; Dave.Myers@erm.com;  
NancyRae.Reese@erm.com; jayd@cpward.com  
**Subject:** Fw: New Sump for Room 24

Hello Dave and Loren

Please advise if the new sump for Room 24 proposed by CP Ward is acceptable to UCB.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
jon.fox@erm.com

— Forwarded by Jon Fox/ERMNE/ERM on 09/09/2005 12:16 PM —

"" <jayd@cpward.com>

To: john.kuhn@erm.com  
cc: jon.fox@erm.com, NancyRae.Reese@erm.com,  
09/09/2005 06:29 AM Hartman@hartmanengineering.com  
Subject: New Sump

Goodmorning,

I'm submitting for your consideration the following.

- **The new sump to be made of HDPE pipe with an extrusion welded plug in one end forming the bottom**
  - **Outside dia. 42"                      Wall thickness 1.292"**
  - **Materials in accordance with ASTM D 3350**
- The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer. If you cannot, please ask your system administrator for assistance.

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Please visit ERM's web site: <http://www.erm.com>

---

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----- Forwarded by Jon Fox/ERMNE/ERM on 09/29/2005 05:03 PM



"Keim Loren (ROC)"  
<[Loren.Keim@ucb-group.com](mailto:Loren.Keim@ucb-group.com)>

09/12/2005 02:59 PM

To: "'Jon.Fox@erm.com'" <[Jon.Fox@erm.com](mailto:Jon.Fox@erm.com)>  
cc:  
Subject: RE: New Sump for Room 24

Jon,

I talked to Jay, and I see nothing wrong with using this sump. The submittal is fine from my perspective also.

Loren R. Keim

-----Original Message-----

**From:** [Jon.Fox@erm.com](mailto:Jon.Fox@erm.com) [<mailto:Jon.Fox@erm.com>]

**Sent:** Friday, September 09, 2005 2:07 PM

**To:** Panipinto Dave (ROC)

**Cc:** [loren.keim@ucb-group.com](mailto:loren.keim@ucb-group.com)

**Subject:** RE: New Sump for Room 24

Hi Dave

Thanks for your input. I will wait to hear back from Loren at his convenience.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
jon.fox@erm.com

"Panipinto Dave (ROC)" <Dave.Panipinto@ucb-group.com>

09/09/2005 01:48 PM

To: "Jon.Fox@erm.com"  
<Jon.Fox@erm.com>  
cc:  
Subject: RE: New Sump for Room 24

Jon, The summittal is fine from my perspective. Loren will be back on Monday and I would like his response. Dave

-----Original Message-----

**From:** Jon.Fox@erm.com [mailto:Jon.Fox@erm.com]

**Sent:** Friday, September 09, 2005 12:21 PM

**To:** Dave.Panipinto@ucb-group.com; loren.keim@ucb-group.com

**Cc:** Michael.Bogdan@sanofi-aventis.com; charles.miller@sanofi-aventis.com;

Quinn.Lewis@erm.com; Richard.Wohaska@erm.com; Jeffrey.Hohman@ucb-group.com;

lford@nixonpeabody.com; Ed.Hinchey@erm.com; John.Kuhn@erm.com; Dave.Myers@erm.com;

NancyRae.Reese@erm.com; jayd@cpward.com

**Subject:** Fw: New Sump for Room 24

Hello Dave and Loren

Please advise if the new sump for Room 24 proposed by CP Ward is acceptable to UCB.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)

315-445-2543 (facsimile)  
jon.fox@erm.com

— Forwarded by Jon Fox/ERMNE/ERM on 09/09/2005 12:16 PM —

"" <jayd@cpward.com>

09/09/2005 06:29 AM

To: john.kuhn@erm.com  
cc: jon.fox@erm.com, NancyRae.Reese@erm.com, Hartman@hartmanengineering.com  
Subject: New Sump

Goodmorning,

I'm submitting for your consideration the following.

- **The new sump to be made of HDPE pipe with an extrusion welded plug in one end forming the bottom**
  - **Outside dia. 42"                      Wall thickness 1.292"**
  - **Materials in accordance with ASTM D 3350**
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---- File information -----  
File: submittal cover sheet 14.doc  
Date: 9 Sep 2005, 6:28  
Size: 77824 bytes.  
Type: Unknown

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Please visit ERM's web site: <http://www.erm.com>

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\*\*\*\*\*

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## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: 10-Oct.-05

**Submittal Status: APPROVED**

Reviewed By: David W. Myers

Date: 10-Oct.-05

---

**Submittal/ Specification No.: 16**  
**Contractor's Submittal No.: 16**  
**Submittal Name: Concrete Mix**  
**Manufacturer/Supplier: C.P. Ward**

1. Submittal No. 16 dated 7 October 2005 is accepted as is for the basement slab.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	16
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	10/07/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		Product: Name: SF456710 3500 # Concrete Mix	
Supplier Name:	Manitou Concrete	Manufacturer:	Manitou Concrete
Address:	1260 Jefferson Rd. Rochester NY	Address:	1260 Jefferson Rd. Rochester NY
Phone:	424-6410	Fax:	424-1846
Phone:	424-6410	Fax:	
<b>REFERENCES:</b>	Section No.(s)	Drawing No.(s)	
	Part/Paragraph No.	Detail Reference No.	

ENGINEER'S ACTION		CONTRACTOR'S APPROVAL STAMP	
SHOP DRAWING REVIEW			
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.	received via e-mail
<input type="checkbox"/>	Approved as Corrected		
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.	
<input type="checkbox"/>	Rejected		
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		RECEIVED STAMP DATE	
		10/7/05 DWM	
By _____ Date _____			

**Manitou Concrete**  
 1200 JEFFERSON ROAD  
 ROCHESTER, NY 14623  
 PHONE 585-424-8410 FAX 585-424-1848



**SUBMITTAL**

Original

Revised

Additional

TO: 1131  
**WARD, C.P. INC.**  
**100 RIVER ROAD**  
**SCOTTSVILLE, NY 14848**

ATTN:  
 Jay

PROJECT:  
 UCS

FROM:  
**John Topping**  
**Sales Manager**

DATE:  
 10/8/2005

**General Information**

MIX ID:	SF456710	DESCRIPTION:	Non-Air entrained Gravel w/ 10% Fly ash
USE:	Basement slab		
STRENGTH:	3800	psi in 28 days (When tested in accordance with ASTM C31, C39 & C811)	

**Materials & Proportions**

480	lbs./CY	Cement ASTM C150
55	lbs./CY	Fly Ash
1780	lbs./CY (SSD)	ASTM C-33 #67
1385	lbs./CY (SSD)	Concrete Sand ASTM C-33
125	lbs./CY (SSD)	Manitou Intermediate Aggregate ASTM C-33
280	+/- 10lbs./CY of Water	
as required	oz./CY of ASTM C494 Type A water reducer or retarder	

**Specifications**

3.00 +/- 1.00 inches slump (When tested in accordance with ASTM C143)

NAE +/- 0.00 percent air entrainment (When tested in accordance with ASTM C173 or C231)

0.50 estimated w/c

All testing should be performed by a testing laboratory meeting the criteria of ASTM C1077 and in accordance with applicable ASTM or ACI standards

**Special Specification Requirements**

0

Acceptance of this submittal entitles Manitou Concrete to notification and copies of all inspection results.



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: 10-Oct.-05

Submittal Status: **APPROVED**

Reviewed By: David W. Myers

Date: 10-Oct.-05

---

Submittal/ Specification No.: 17  
Contractor's Submittal No.: 17  
Submittal Name: Concrete Reinforcement.  
Manufacturer/Supplier: C.P. Ward

1. Submittal No. 17 dated 7 October 2005 is accepted as is for 6x6 wire reinforcement and #4 rebar.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	17
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	10/7/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Product data    | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample          | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection | <input type="checkbox"/> Record Document  | <input checked="" type="checkbox"/> Work Plan          |
| <input type="checkbox"/> Schedule        | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		Product: Name: 6 X 6 Wire reinforcement	
Supplier Name:	A H Harris	Manufacturer:	
Address:	Rochester, NY	Address:	
Phone:		Phone:	
Fax:		Fax:	
<b>REFERENCES:</b>	Section No.(s)	Drawing No.(s)	
	Part/Paragraph No.	Detail Reference No.	

ENGINEER'S ACTION		CONTRACTOR'S APPROVAL STAMP		
SHOP DRAWING REVIEW		<p>received via e-mail</p>		
<input type="checkbox"/>	Approved			Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.
<input type="checkbox"/>	Approved as Corrected			
<input type="checkbox"/>	Revise and Resubmit			Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.
<input type="checkbox"/>	Rejected			
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		RECEIVED STAMP DATE		
By _____ Date _____		<p>10/7/05</p> <p>DWM</p>		



""  
<jayd@cpward.com>  
10/07/2005 04:34 PM

To: Dave.myers@erm.com  
cc: jon.fox@erm.com  
Subject: Submittal 17

Dave,

As per my conversation with Loren Kiem from UCB we will be using 6X6 concrete reinforcing wire in the floor. Also we will dowel the perimeter of the hole with # 4 rebar @ one foot spacing, 8 inches into existing concrete and 8 inches into concrete pour area. The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer. If you cannot, please ask your system administrator for assistance.

----- File information -----  
File: submittal cover sheet 17.doc  
Date: 7 Oct 2005, 16:33  
Size: 77824 bytes.  
Type: Unknown



submittal cover sheet 17.doc



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: 18-Oct.-05

Submittal Status: **APPROVED**

Reviewed By: David W. Myers Date: 18-Oct.-05

---

Submittal/ Specification No.: 19  
Contractor's Submittal No.: 19  
Submittal Name: Schedule 40 PVC Pipe  
Manufacturer/Supplier: C.P. Ward

1. Submittal No. 19 dated 17 October 2005 is accepted as for schedule 40 PVC pipe.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

<b>PROJECT NAME:</b>	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		<b>SUBMITTAL NO.:</b>	19
<b>PROJECT NO.:</b>	0016744		<b>TRADE:</b>	Environmental Construction
<b>CONTRACTOR:</b>	CP Ward, Inc.		<b>NO. OF ATTACHED PAGES:</b>	1
<b>ADDRESS:</b>	100 River Road Scottsville NY 14546		<b>DATE:</b>	10/17/05
<b>PHONE:</b>	585-889-8800	<b>FAX:</b>	585-889-6008	

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

**DESCRIPTION OF SUBMITTAL:**

<b>Supplier Name:</b> Home Depot		<b>Product Name:</b> Schedule 40 PVC 2-3&4"	
<b>Address:</b> Jefferson Rd. Rochester NY		<b>Manufacturer:</b> Various	
<b>Phone:</b>	<b>Fax:</b>	<b>Address:</b>	

**REFERENCES:**

<b>Section No.(s)</b>	16744 Phase 15	<b>Drawing No.(s)</b>	
<b>Part/Paragraph No.</b>	Sub. # 19	<b>Detail Reference No.</b>	

**ENGINEER'S ACTION**

**CONTRACTOR'S APPROVAL STAMP**

**SHOP DRAWING REVIEW**

<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.
<input type="checkbox"/>	Approved as Corrected	
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.
<input type="checkbox"/>	Rejected	

received via e-mail

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.

**RECEIVED STAMP DATE**

10/17/05  
DWM

By \_\_\_\_\_ Date

**YAHOO! MAIL**

Print - Close Window

**Subject:** Submittal 19  
**From:** Dave.Myers@erm.com  
**To:** dwsolutions53@yahoo.com  
**Date:** Tue, 18 Oct 2005 13:09:15 -0400

David W. Myers, C.G.  
ERM Senior Project Manager  
315-445-2554 (Syracuse Office)  
518-356-5749 (Albany Home office/fax)  
518-461-8936 (Cell Phone)

-----Forwarded by Dave Myers/ERMNE/ERM on 10/18/2005 01:12PM -----

To: dave.myers@erm.com  
From: "" <jayd@cpward.com>  
Date: 10/17/2005 04:51PM  
cc: jon.fox@erm.com  
Subject: Submittal 19

Dave,  
The PVC pipe will be purchased at the local Home depot

The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer. If you cannot, please ask your system administrator for assistance.

----- File information -----  
File: submittal cover sheet 19.doc  
Date: 17 Oct 2005, 16:48  
Size: 77824 bytes.  
Type: Unknown

---

**Attachments**

---

**Files:**

 **submittal\_cover\_sheet\_19.doc** (76k) [[Preview](#)]





## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

Submittal Status: **APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **02-Sep-05**  
Reviewed By: **Jon S. Fox** Date: **21-Sep-05**

---

**Submittal/ Specification No.: 22A**  
**Contractor's Submittal No.: 22A**  
**Submittal Name: Steel Piles**  
**Manufacturer/Supplier: Seibel Modern**

1. Submittal No. 22A dated 31 August 2005 is accepted based upon the review and approval of Hartman Engineering.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

Submittal Status: **APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **02-Sep-05**  
Reviewed By: **Jon S. Fox** Date: **21-Sep-05**

---

Submittal/ Specification No.: **23A**  
Contractor's Submittal No.: **23A**  
Submittal Name: **Steel Wales**  
Manufacturer/Supplier: **Seibel Modern**

1. Submittal No. 23A dated 31 August 2005 is approved as noted based on the review and approval of Hartman Engineering.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	22-A &23-A
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	6
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	08/31/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		Product: Name: W8x24,W8x35	
Supplier Name:	Seibel Modern	Manufacturer:	Nucor Steel
Address:	38 Palmer place Lancaster NY 14086	Address:	
Phone:	716-683-1536	Fax:	716-683-2552
<b>REFERENCES:</b>	Section No.(s)	Drawing No.(s)	03-303-GP-1
	Part/Paragraph No.	Detail Reference No.	Material spec.

<b>ENGINEER'S ACTION</b>		<b>CONTRACTOR'S APPROVAL STAMP</b>	
<b>SHOP DRAWING REVIEW</b>			
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.	
<input type="checkbox"/>	Approved as Corrected		
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.	
<input type="checkbox"/>	Rejected		
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		RECEIVED STAMP DATE	
By _____		Date _____	

All information on this sheet shall be completed, or it will be returned without an action taken.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	22 & 23
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	08/25/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

**DESCRIPTION OF SUBMITTAL:**

Product Name:

Supplier Name:	Seibel Modern	Manufacturer:	
Address:	38 Palmer place Lancaster NY 14086	Address:	
Phone:		Fax:	

REFERENCES:	Section No.(s)	Drawing No.(s)
	Part/Paragraph No.	Detail Reference No.

**ENGINEER'S ACTION**

**CONTRACTOR'S APPROVAL STAMP**

**SHOP DRAWING REVIEW**

- |                          |                       |   |
|--------------------------|-----------------------|---|
| <input type="checkbox"/> | Approved              | Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time. |
| <input type="checkbox"/> | Approved as Corrected |   |
| <input type="checkbox"/> | Revise and Resubmit   | Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.            |
| <input type="checkbox"/> | Rejected              |   |

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.

RECEIVED STAMP DATE

*APPROVED BY DESIGN ENGINEER*  
*Richard G. Hartman 9/2/05*

By \_\_\_\_\_ Date \_\_\_\_\_





Page 4 of 4

SEIBEL METALS USA AND  
 1700 GLENN DRIVE  
 SU CAROL SPRING, MS  
 MOOREHEAD, MS 38758

SEIBEL METALS USA AND  
 1700 GLENN DRIVE  
 SU CAROL SPRING, MS  
 MOOREHEAD, MS 38758

SEIBEL METALS USA AND  
 1700 GLENN DRIVE  
 SU CAROL SPRING, MS  
 MOOREHEAD, MS 38758

SPECIFICATIONS: Tested in accordance with ASTM specification A370 and A374.  
 MSK101 4219-2406/MS20-20-08  
 MSK1 54-14  
 MSK2 4152-016/MS10/MS20-02-30/MS71-01-30/MS9-01x50/MS3-303W  
 CSR 3 CSR440/MS10-21-20V

Description	Batch Test	Yield Tensile [ksi]	Yield Tensile [MPa]	Elong [%]	C PB	Mn TL	S CR	P CR	Si M	Cu Zr	Ni Cr	Al Zr	CEI PCM
MSK101	2582660	81	58008	7100	21.60	.0088	.0252	.0089	.2410	.2790	.0510	.2423	.2723
MSK1	A932-014	81	58008	31600	26.56	.0088	.0134	.0089	.2410	.2790	.0510	.2423	.2723
MSK2	2582660	80	56288	7800	21.81	.0088	.0134	.0089	.2410	.2790	.0510	.2423	.2723
MSK1	A932-014	79	56288	11000	21.80	.0088	.0134	.0089	.2410	.2790	.0510	.2423	.2723
MSK2	A932-014	81	58008	31600	26.56	.0088	.0134	.0089	.2410	.2790	.0510	.2423	.2723

14 Heat(s) for this BIR.

Elongation based on 8" (20.32cm) gauge length. 'No weld repair' was performed.  
 CEI = C1(Mn/Si) + C2(Cr/Ni) + C3((Cr+Ni)/S) + C4((Ni/Cu)/S) + C5  
 CEZ = C1((Mn/Si)/S) + C2((Cr+Ni)/S) + C3((Cr+Ni)/S) + C4((Ni/Cu)/S) + C5

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the purchaser, meet applicable specifications.

Trace R. Work  
 Metallurgist

METALS USA  
 CUST. PO#  
 OUR ORDER#

08/28/2005 13:28 FAX 716 883 2552  
 08/29/05 MON 08:08 FAX 724 288 7919

SEIBEL MODERN MFG.  
 METALS USA AND.

005

005

**NUGOR-YAMATO STEEL CO.**

P.O. BOX 1228 • ELYSIEVILLER, PA 17031

**CERTIFIED MILL TEST REPORT**

100% MELTED AND MANUFACTURED IN U.S.A.  
 All shapes produced by Nugor-Yamato Steel are cast  
 and rolled to a fully killed and fine grain practice.

4/03/04  
 882976  
 883747  
 1084  
 883-2825

METALS USA PLACES & SHAPES AMERIDGE  
 C/O FETTERBOROUGH INTERNATIONAL, INC. 18  
 CORRAL TRACK 767  
 AMERIDGE, PA 15003-0000

GRADE: ASTM A992-02; ASTM A572GR50-01  
 ASTM A709/A709M-03B HR50 (345)  
 ASTM A709/A709M-03B GR50S (345B)

ASTM A9/A9M-02b

METALS USA PLACES & SHAPES  
 DOMESTIC OFFICE  
 1425 GREENBRIER ROAD, BOX 72  
 FETTERBOROUGH, PA 15230-0000

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES				CHEMICAL PROPERTIES													
				YIELD TO RATCH	TENSILE	ELONG.	TEMP. IMPACT	C	Mn	P	S	SI	CU	NI	CR	Mo	V	Co	CE		
1	W08 - 31.0 15.718 M	24	241998	.78	54000	74000	24		.06	1.11	.019	.030	.29	.36	.13	.10	.02	.00	.024	.39	
2	W08 - 31.0 15.718 M	3	233049	.72	54000	75000	26		.07	1.15	.015	.035	.29	.36	.10	.12	.02	.00	.017	.32	
3	W08 - 31.0 15.718 M	4	233047	.76	53000	73000	24		.07	1.14	.014	.031	.27	.35	.11	.14	.02	.00	.024	.32	
4	W08 - 31.0 15.718 M	5	233055	.71	53000	73000	25		.09	1.19	.018	.028	.28	.32	.11	.15	.02	.01	.018	.36	
5	W08 - 31.0 15.718 M	2	233057	.73	55000	76000	26		.08	1.13	.014	.037	.32	.30	.11	.14	.02	.00	.015	.33	
6	W08 - 31.0 15.718 M	1	238654	.73	57000	78000	29		.06	1.24	.015	.034	.29	.42	.11	.13	.02	.01	.023	.34	
7	W08 - 31.0 15.718 M	20	242002	.72	53000	74000	24		.07	1.20	.018	.023	.31	.43	.14	.10	.03	.00	.022	.34	
8	W08 - 35.0 12.132 M	7	240342	.73	54000	74000	24		.07	1.25	.014	.028	.31	.33	.09	.08	.02	.00	.025	.34	
9	W08 - 35.0 12.132 M	13	242007	.74	57000	76000	23		.08	1.20	.020	.037	.30	.34	.12	.13	.02	.00	.024	.34	

METALS USA

CUST. PO# 51498

OUR ORDER# ADA 59328

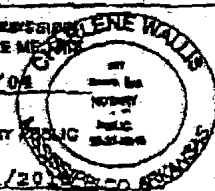
ELONGATION BASED ON 1/2 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and observations reported by this company are in accordance with the requirements of the material specifications, and when designated by the purchaser, meet the applicable specifications.

*Ray Linnell*  
 QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI  
 SWORN TO AND SUBSCRIBED BEFORE ME THIS 2 Day of 09/04  
*Charlene Walker*  
 NOTARY PUBLIC  
 MY COMMISSION EXPIRES 10/21/2005





SEIBEL METALS USA  
P.O. Box 2288  
Mt. Pleasant, S.C. 29564  
Phone: (803) 366-6000

SEIBEL METALS USA AMERICA  
ATTN: SALES  
35 CASOT BULWARK EAST  
LANSHIRE, PA 15047

SEIBEL METALS USA CANADA  
ATTN: SALES  
1000 WINDY HILL RD  
MISSISSAUGA, ONT. L4X 1L5  
CANADA

SEIBEL METALS USA MEXICO  
ATTN: SALES  
CARRANZA 233  
COLUMBO RD. #20-1336  
P.O. Box 115  
MEXICO CITY D.F. 06032

SEIBEL METALS USA AUSTRIA  
ATTN: SALES  
SEIBEL METALS USA  
LANSHIRE, PA 15047

SPECIFICATIONS: LISTED IN DESCRIPTION WITH ASTM SPECIFICATIONS ACRASH AND A370.  
ASTM : A370-84  
ASME : B7.1-84  
ASTM : A370-84  
ASTM : A370-84

Description	Units	Yield	TS	Tensile	Elong	Elong	Elong	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	TS	
M2035	80.00	.78	54800	71800	22.19	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	
M2035	80.00	.77	59000	74700	21.43	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	1.0915	
M2035	80.00	.79	58000	74000	22.65	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193	1.1193
M2035	80.00	.80	59000	75000	21.23	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923	1.0923
M2035	80.00	.77	59700	77000	28.78	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916
M2035	80.00	.79	59300	74000	24.59	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936	1.0936
M2035	80.00	.78	59000	75000	27.10	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916
M2035	80.00	.78	59000	75000	27.10	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916	1.0916
M2035	80.00	.77	55300	71800	21.93	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908
M2035	80.00	.78	59000	72000	21.18	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908	1.0908

METALS USA  
CUST. PO# 5149 R  
OUR ORDER# APA 59328

SEIBEL MODERN MFG METALS USA ANB

08/29/2005 13:28 FAX 718 683 2552  
09/29/05 MON 09:09 FAX 724 268 7818

SEIBEL METALS, INC. - BOSTON

1200 STEEL SERVICE  
200 BOSTON  
BOSTON, MA 02118  
Phone: (617) 252-6000  
FAX: (617) 252-6001

SEIBEL METALS, INC. - BOSTON  
1200 STEEL SERVICE  
200 BOSTON  
BOSTON, MA 02118  
Phone: (617) 252-6000  
FAX: (617) 252-6001

SEIBEL METALS, INC. - BOSTON  
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FAX: (617) 252-6001

SEIBEL METALS, INC. - BOSTON  
1200 STEEL SERVICE  
200 BOSTON  
BOSTON, MA 02118  
Phone: (617) 252-6000  
FAX: (617) 252-6001

SPECIFICATIONS: TO BE IN ACCORDANCE WITH ASTM SPECIFICATION A648K AND A610.

A610 - 78-10-01-11-00  
ASTM - 78-10-01-11-00  
ASTM - 78-10-01-11-00  
ASTM - 78-10-01-11-00

Particulars	Qty	Unit	Weight	Material	Grade	Finish	Notes
15 METERS FOR THIS MTR.							
15 METERS FOR THIS MTR.							

Particulars	Qty	Unit	Weight	Material	Grade	Finish	Notes
15 METERS FOR THIS MTR.							
15 METERS FOR THIS MTR.							

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the purchaser, meet applicable specifications.

State of South Carolina  
County of Berkeley  
Seath and Subscribed before me  
21st day of June 2005  
Candace Cohen

SEIBEL METALS, INC. - BOSTON  
1200 STEEL SERVICE  
200 BOSTON  
BOSTON, MA 02118  
Phone: (617) 252-6000  
FAX: (617) 252-6001



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

**Submittal Status: APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **02-Sep-05**  
Reviewed By: **Jon S. Fox** Date: **21-Sep-05**

---

**Submittal/ Specification No.: 24**  
**Contractor's Submittal No.: 24**  
**Submittal Name: Nuts and Bolts**  
**Manufacturer/Supplier: Cook Iron Store**

1. Submittal No. 24 dated 25 August 2005 is approved as noted based on the review and approval of Hartman Engineering.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



Environmental Resources Management  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

# SUBMITTAL COVER SHEET

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	24
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	08/25/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>			Product: Name:		
Supplier Name:	Cook Iron Store		Manufacturer:		
Address:	PO Box 31237 Rochester NY 14603		Address:		
Phone:	585-454-5840	Fax:	585-325-4465	Phone:	Fax:
<b>REFERENCES:</b>	Section No.(s)	Drawing No.(s)			
	Part/Paragraph No.	Detail Reference No.			

<b>ENGINEER'S ACTION</b>			<b>CONTRACTOR'S APPROVAL STAMP</b>		
SHOP DRAWING REVIEW					
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.			
<input type="checkbox"/>	Approved as Corrected				
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.			
<input type="checkbox"/>	Rejected				
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.			RECEIVED STAMP DATE		
By _____ Date _____					



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	24
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14548		DATE:	08/25/05
PHONE:	585-889-8800	FAX:	585-889-8008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

**DESCRIPTION OF SUBMITTAL:**

Supplier Name:	Cook Iron Store	Product Name:	
Address:	PO Box 31237 Rochester NY 14803	Manufacturer:	
Phone:	585-454-5840	Fax:	585-325-4485

REFERENCES:	Section No.(s)	Drawing No.(s)
	Part/Paragraph No.	Detail Reference No.

<b>ENGINEER'S ACTION</b>		<b>CONTRACTOR'S APPROVAL STAMP</b>	
<b>SHOP DRAWING REVIEW</b>			
<input type="checkbox"/> Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.		
<input type="checkbox"/> Approved as Corrected			
<input type="checkbox"/> Revise and Resubmit	Fabrication and/or installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.		
<input type="checkbox"/> Rejected			
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		<b>RECEIVED STAMP DATE</b>	
APPROVED BY DESIGN ENGINEER Richard J. Hartman 9/2/05			
By _____	Date _____		

All information on this sheet shall be completed, or it will be returned without an action taken.



# Cook Iron Store Company, Inc.

PO Box 31237  
 Rochester, New York 14603-1237  
 (585) 454-5840 • Fax (585) 325-4465  
 NYS (800) 724-1540  
 www.cookironstore.com

NO GOODS ACCEPTED FOR RETURN WITHOUT ORIGINAL CHARGE SLIP AND UNLESS AUTHORIZED. NOTHING ACCEPTED FOR RETURN AFTER 30 DAYS. ALL RETURNS SUBJECT TO 15% RESTOCKING CHARGE. SPECIAL ORDER MERCHANDISE NOT RETURNABLE. WE ASSUME NO LIABILITY FOR DAMAGE TO PERSON OR PROPERTY CAUSED BY MERCHANDISE BOUGHT FROM OR THROUGH US. WE ARE NOT LIABLE FOR LOSS OR DAMAGE CAUSED BY CONTINGENCIES BEYOND OUR CONTROL WHICH MAY CAUSE DELAY IN DELIVERY.

## PICKING LIST

08/19/2005 14:17

### OUR TRUCK Delivery

Date: 08/19/2005 Rec Dn: mm/dd/yyyy PO No: 26934  
 Ship Via: OUR TRUCK Pymt: CHG Rel No:

Apply To:  
 Order: 667947  
 I/O Rep: rddger ken

Frt Term: Incoming Instr: Freight:

Bill To: C.P. WARD  
 100 RIVER RD.  
 PO BOX 900  
 SCOTTSVILLE, NY 14546

Ship To: C.P. WARD  
 100 RIVER RD.  
 PO BOX 900  
 SCOTTSVILLE, NY 14546

Part BOM Location Catalog/Vendor Cost Prod ID Desc U/M Order Ship Stock  
 Product Description Unit Price Extension Qty Qty Qty

5/8-11 X 1 3/4 HEX BOLT A325	58134HB4325 02089	0.5600	EACH	✓ 100.00	100	
3/4-10 X 1 3/8 HEX BOLT A325	34134HB4325 02089	0.6900	EACH	80.00	0	80
5/8-11 HEX NUT 2H	58HN2H 02089	0.2300	EACH	✓ 100.00	100	
3/4-10 HEX NUT 2H	34HN2H 02089	0.3000	EACH	80.00	80	

Received By: *[Signature]* Printed Name: \_\_\_\_\_

Filled By: \_\_\_\_\_ Packed By: *[Signature]* Driver: *[Signature]* Date: \_\_\_\_\_

Customer Terms: 2% 10 DAYS NET 30 DAYS FROM INV. DATE

3



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

**Submittal Status: APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **02-Sep-05**  
Reviewed By: **Jon S. Fox** Date: **21-Sep-05**

---

**Submittal/ Specification No.: 25**  
**Contractor's Submittal No.: 25**  
**Submittal Name: Concrete Anchor Bolts**  
**Manufacturer/Supplier: Cook Iron Store**

1. Submittal No. 25 dated 25 August 2005 is approved as noted based on the review and approval of Hartman Engineering.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8			SUBMITTAL NO.:	25
PROJECT NO.:	0016744			TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.			NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546			DATE:	08/25/05
PHONE:	585-889-8800	FAX:	585-889-6008		

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

**DESCRIPTION OF SUBMITTAL:**

Supplier Name:	Cook Iron Store	Product Name:	
Address:	PO Box 31237 Rochester NY 14603	Manufacturer:	
Phone:	585-454-5840	Address:	
Fax:	585-325-4465	Phone:	
		Fax:	

**REFERENCES:**

Section No.(s)	Drawing No.(s)
Part/Paragraph No.	Detail Reference No.

**ENGINEER'S ACTION**

**CONTRACTOR'S APPROVAL STAMP**

**SHOP DRAWING REVIEW**

- |                          |                       |   |
|--------------------------|-----------------------|---|
| <input type="checkbox"/> | Approved              | Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time. |
| <input type="checkbox"/> | Approved as Corrected |   |
| <input type="checkbox"/> | Revise and Resubmit   | Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.            |
| <input type="checkbox"/> | Rejected              |   |

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.

RECEIVED STAMP DATE

By \_\_\_\_\_ Date \_\_\_\_\_





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

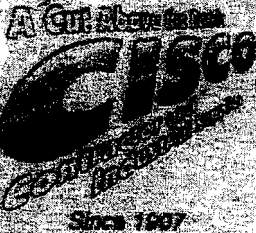
<b>PROJECT NAME:</b>	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		<b>SUBMITTAL NO.:</b>	25
<b>PROJECT NO.:</b>	0016744		<b>TRADE:</b>	Environmental Construction
<b>CONTRACTOR:</b>	CP Ward, Inc.		<b>NO. OF ATTACHED PAGES:</b>	1
<b>ADDRESS:</b>	100 River Road Scottsville NY 14546		<b>DATE:</b>	08/25/05
<b>PHONE:</b>	585-889-8800	<b>FAX:</b>	585-889-6008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>			<b>Product Name:</b>		
<b>Supplier Name:</b>	Cook Iron Store		<b>Manufacturer:</b>		
<b>Address:</b>	PO Box 31237 Rochester NY 14603		<b>Address:</b>		
<b>Phone:</b>	585-454-5840	<b>Fax:</b>	585-325-4465	<b>Phone:</b>	<b>Fax:</b>
<b>REFERENCES:</b>	<b>Section No.(s)</b>		<b>Drawing No.(s)</b>		
	<b>Part/Paragraph No.</b>		<b>Detail Reference No.</b>		

<b>ENGINEER'S ACTION</b>			<b>CONTRACTOR'S APPROVAL STAMP</b>		
<b>SHOP DRAWING REVIEW</b>					
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.			
<input type="checkbox"/>	Approved as Corrected				
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.			
<input type="checkbox"/>	Rejected				
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.  <b>APPROVED BY DESIGN ENGINEER</b> Richard J. Hartman 9/2/05			<b>RECEIVED STAMP DATE</b>		
By _____ Date _____					



# Cook Iron Store Company, Inc.

PO Box 31237  
 Rochester, New York 14603-1237  
 (585) 45-4840 • Fax (585) 325-4485  
 NYS (800) 724-1540  
 www.cookironstore.com

NO GOODS ACCEPTED FOR RETURN WITHOUT ORIGINAL CHARGE SLIP AND UNLESS AUTHORIZED. NOTHING ACCEPTED FOR RETURN AFTER 30 DAYS. ALL RETURNS SUBJECT TO 15% RESTOCKING CHARGE. SPECIAL ORDER MERCHANDISE NOT RETURNABLE. WE ASSUME NO LIABILITY FOR DAMAGE TO PERSON OR PROPERTY CAUSED BY MERCHANDISE BOUGHT FROM OR THROUGH US. WE ARE NOT LIABLE FOR LOSS OR DAMAGE CAUSED BY CONTINGENCIES BEYOND OUR CONTROL WHICH MAY CAUSE DELAY IN DELIVERY.

## PICKING LIST

08/11/2005 15:15

### WILL CALL Delivery

Date: 08/11/2005    Rcd On: mm/dd/ccyy    PO No: 26901    Apply To:  
 Ship Via: WILL CALL    Pymt: CHG    Ref No:    Order: 666678  
 I/O Rep: rodger ken  
 Fri Term: In/PP&AGB    Incoming Instr:    Freight:

Bill: C.F. WARD  
 To: 100 RIVER RD.  
 PO BOX 900  
 SCOTTSVILLE, NY 14546

07560 Ship: C.F. WARD  
 To: 100 RIVER RD.  
 PO BOX 900  
 SCOTTSVILLE, NY 14546

Part # / P/W Location	Catalog/Vendor	Last Prod ID	Dsct	U/M	Order Qty	Ship Qty	Blord Qty
-----------------------	----------------	--------------	------	-----	-----------	----------	-----------

57T-06-D-0850 09999				EACH	12.00	12	
57T-5-7 SPINLOCK CONCRETE ANCHOR		22.8300					

3/4 X B 1/2" D-TYPE ANCHOR

*E. R. Davis*

Received By: \_\_\_\_\_ Printed Name: \_\_\_\_\_  
 Filled By: \_\_\_\_\_ Driver: \_\_\_\_\_  
 Customer Terms: 2% 10 DAYS NET 30 DAYS FROM INV. DATE    Date: \_\_\_\_\_

194469

1



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **18-Oct.-05**

**Submittal Status: APPROVED**

Reviewed By: **David W. Myers**

Date: **18-Oct.-05**

---

**Submittal/ Specification No.: 26**  
**Contractor's Submittal No.: 26**  
**Submittal Name: Timber Lagging**  
**Manufacturer/Supplier: C.P. Ward**

1. Submittal No. 26 dated 17 October 2005 is accepted as for timber lagging.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



Environmental Resources Management  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	26
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	10/17/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

**DESCRIPTION OF SUBMITTAL:**

<b>Supplier Name:</b> Trathen Logging Company		<b>Product Name:</b> Hardwood Logging	
<b>Address:</b> 2301 Main St. P.O.Box 400 York, NY 14592		<b>Manufacturer:</b> Trathen Logging Company	
<b>Phone:</b> (585)243-3661		<b>Address:</b> 2301 Main St. P.O.Box 400 York, NY 14592	
<b>Fax:</b>		<b>Phone:</b> (585)243-3661	
		<b>Fax:</b>	

<b>REFERENCES:</b>	<b>Section No.(s)</b> 16744 Phase 15	<b>Drawing No.(s)</b> 03-303
	<b>Part/Paragraph No.</b> Sub. # 26	<b>Detail Reference No.</b> 9

**ENGINEER'S ACTION**

**CONTRACTOR'S APPROVAL STAMP**

**SHOP DRAWING REVIEW**

<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.
<input type="checkbox"/>	Approved as Corrected	
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.
<input type="checkbox"/>	Rejected	

*Received via email*

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.

**RECEIVED STAMP DATE**

*10/17/05*

*Dwm*

By \_\_\_\_\_ Date \_\_\_\_\_

**YAHOO! MAIL**

Print - Close Window

**Subject:** submittal 26  
**From:** Dave.Myers@erm.com  
**To:** dwsolutions53@yahoo.com  
**Date:** Tue, 18 Oct 2005 13:07:57 -0400

David W. Myers, C.G.  
ERM Senior Project Manager  
315-445-2554 (Syracuse Office)  
518-356-5749 (Albany Home office/fax)  
518-461-8936 (Cell Phone)

-----Forwarded by Dave Myers/ERMNE/ERM on 10/18/2005 01:10PM -----

To: dave.myers@erm.com  
From: "" <jayd@cpward.com>  
Date: 10/17/2005 04:43PM  
Subject: submittal 26

Dave,  
Thought I had sent this, Lagging was inspected by H Ford of Hartman Engineering Heres the submittal sheet and delivery slip from Trathen

Regards,  
Jay D

The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer. If you cannot, please ask your system administrator for assistance.

---- File information -----

File: 1 submittal cover sheet 26.doc  
Date: 17 Oct 2005, 16:40  
Size: 78848 bytes.  
Type: Unknown

The following section of this message contains a file attachment prepared for transmission using the Internet MIME message format. If you are using Pegasus Mail, or any another MIME-compliant system, you should be able to save it or view it from within your mailer.

If you cannot, please ask your system administrator for assistance.

----- File information -----

File: Hardwood Lagging.jpg  
Date: 17 Oct 2005, 16:30  
Size: 279921 bytes.  
Type: JPEG-image

---

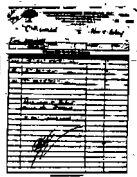
**Attachments**

---

Files:

 [l\\_submittal\\_cover\\_sheet\\_26.doc](#) (77k) [Preview]

Photos:



---

**Hardwood Lagging.jpg**(273k) [View]

---

[Save All to Yahoo! Photos](#)

*Att. Jay*



# TRATHEN LOGGING COMPANY, INC.

TLCA

QUALITY FOREST PRODUCTS • TIMBER BUYERS • EXPORTERS

2301 MAIN ST. • P.O. BOX 400 • YORK, NY 14582

(585) 243-3881 • FAX (585) 243-3010

www.trathen.com

NO 1457

TO

*C.P. Ward.*

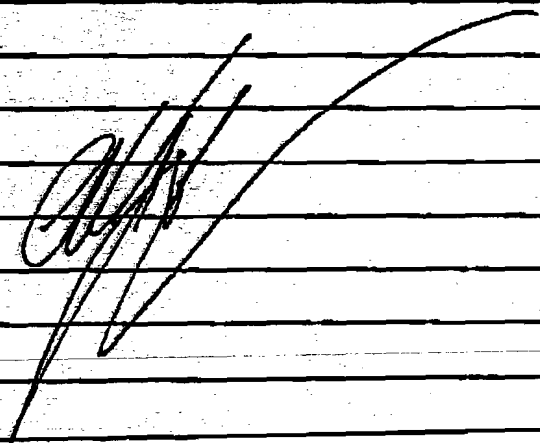
SHIP TO

*Plu e Retsaf.*

*Fax 889-6008*

BUSINESS ORDER NO.	SHIPPING DATE	SHIP VIA	SALESMAN	TERMS
	<i>8-19-05</i>			

**Please Pay from this Invoice**

<i>112</i>	<i>3" X 6" X 4'9" HW</i>		
<i>56</i>	<i>3" X 6" X 5' HW</i>		
<i>56</i>	<i>3" X 6" X 3'6" HW</i>		
<i>Pick up e Retsaf</i>			
<i>mile on. 8-19-05</i>			
<i>* HW = HARD WOOD</i>			
			



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

Submittal Status: **APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **02-Sep-05**  
Reviewed By: **Jon S. Fox** Date: **21-Sep-05**

---

**Submittal/ Specification No.: 27**  
**Contractor's Submittal No.: 27**  
**Submittal Name:** Grout Mix  
**Manufacturer/Supplier:** Power and Construction Group Inc.

1. Submittal No. 27 dated 25 August 2005 is accepted as noted based on acceptable results from chemical analyses and the review and approval of the New York State Department of Environmental Conservation (for chemical properties) and Hartman Engineering (for physical and engineering properties).

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the



Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	27
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	4
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	08/25/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL** (check one):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		Product: Name:	Grout Mix	
Supplier Name:	Power & Construction Group Inc.	Manufacturer:	LL&P	
Address:	96 River Road PO box 196 Scottsville NY 14546	Address:	96 River Road Scottsville NY 14546	
Phone:	585-889-6016	Fax:	585-889-6018	

<b>REFERENCES:</b>	Section No.(s)	Drawing No.(s)
	Part/Paragraph No.	Detail Reference No.

<b>ENGINEER'S ACTION</b>		<b>CONTRACTOR'S APPROVAL STAMP</b>		
<b>SHOP DRAWING REVIEW</b>				
<input type="checkbox"/>	Approved			Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.
<input type="checkbox"/>	Approved as Corrected			
<input type="checkbox"/>	Revise and Resubmit			Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.
<input type="checkbox"/>	Rejected			
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		<b>RECEIVED STAMP DATE</b>		
By _____ Date _____				



**Environmental Resources Management**  
 5788 Widawaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

<b>PROJECT NAME:</b>	B2SA Soil Remediation - 765 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00125-5		<b>SUBMITTAL NO.:</b>	27
<b>PROJECT NO.:</b>	0018744		<b>TRADE:</b>	Environmental Construction
<b>CONTRACTOR:</b>	CP Ward, Inc.		<b>NO. OF ATTACHED PAGES:</b>	4
<b>ADDRESS:</b>	100 River Road Scottsville NY 14546		<b>DATE:</b>	08/25/05
<b>PHONE:</b>	585-889-8800	<b>FAX:</b>	585-889-8000	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

<b>DESCRIPTION OF SUBMITTAL:</b>		<b>Product Name:</b> Grout Mix	
<b>Supplier Name:</b>	Power & Construction Group Inc.	<b>Manufacturer:</b>	LL&P
<b>Address:</b>	96 River Road PO box 198 Scottsville NY 14546	<b>Address:</b>	96 River Road Scottsville NY 14546
<b>Phone:</b>	585-889-6018	<b>Fax:</b>	585-889-6018
<b>REFERENCES:</b>	<b>Section No.(s)</b>	<b>Drawing No.(s)</b>	
	<b>Part/Paragraph No.</b>	<b>Detail Reference No.</b>	

<b>ENGINEER'S ACTION</b>		<b>CONTRACTOR'S APPROVAL STAMP</b>	
<b>SHOP DRAWING REVIEW</b>			
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.	
<input type="checkbox"/>	Approved as Corrected		
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.	
<input type="checkbox"/>	Rejected		
Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.		<b>RECEIVED STAMP DATE</b>	
APPROVED BY DESIGN ENGINEER Richard J. Hartman 9/2/05  By _____ Date			

All information on this sheet shall be completed, or it will be returned without an action taken.

96 River Road  
PO Box 196  
Scottsville, New York 14546

585-889-6016  
585-889-6018 fax

PSI	# BAGS CEMENT	METER COUNT	GATE SETTINGS	
			Sand	Sand
2500	4.5	28 1/8	3.5	4

2500 mix formula includes the following:  
4.5 bags of cement to the yard (432 lbs)  
Concrete sand 3453 lbs per yard  
25 to 26 gallons of H2O  
6% of air entrainment admixture



# St. Marys Cement

St. Marys Plant  
 P.O. Box 1000  
 500 Water Street South  
 St. Marys, Ontario  
 N4G 1R8  
 Phone: (519) 384-1029  
 Fax: (519) 384-4104

## MHI Test Report - ASTM C150 and AASHTO M85 Type I

GSP-1(4-30)

Saturday, April 30, 2005

Chemical		Physical		
Loss on Ignition	0.9 %	Fineness: Blaine SA	379	m <sup>2</sup> /kg
SiO <sub>2</sub>	20.74 %	Retained 325	3.8	%
Fe <sub>2</sub> O <sub>3</sub>	2.85 %	Retained 200		%
Al <sub>2</sub> O <sub>3</sub>	4.56 %	Normal Consistency	28.1	%
CaO	62.62 %	Autoclave Expansion	0.362	%
Free CaO	0.64 %	Vicat - Initial	165	minutes
MgO	3.14 %	- Final	241	minutes
SO <sub>3</sub>	3.75 %	Paste False Set	73	%
K <sub>2</sub> O	0.48 %	Entrained Air	8.4	%
Na <sub>2</sub> O	0.33 %	Sulphate Expansion	0.006	%
TiO <sub>2</sub>	0.28 %	Gilmore - Initial		minutes
P <sub>2</sub> O <sub>5</sub>	0.17 %	- Final		minutes
Mn <sub>2</sub> O <sub>3</sub>	0.08 %	Sulphate Resistance		%
Insoluble Residue	6.05 %	Heat of Hydration (7-D)		kJ/kg
Total Alkali as Na <sub>2</sub> O	0.65 %	(28-D)		kJ/kg
Colour Index	29.6			
<b>Calculated Compounds</b>		<b>Compressive Strengths</b>		
C <sub>3</sub> S	52 %	Age	MPa	PSI
C <sub>2</sub> S	20 %	1-Day	17.4	2530
CSA - ASTM	7 %	3-Day	25.3	3657
- CSA	7.3 %	7-Day	32.8	4760
CAAF	9 %	28-Day	42.2	6119

Testing methods and equipment comply with the requirements of ASTM C150 and AASHTO M85. This MHI Test Certifies this product to meet all the Standard Chemical and Physical requirements of ASTM C150 and AASHTO M85 for Type I and Type II Portland Cement.

17-Jun-05  
 St. Marys Cement

Philip T. Salari, B.Sc.  
 Quality Control Manager



# MB AE 90

## Admixture for entraining air in concrete

### DESCRIPTION:

MB AE 90 admixture is an air-entraining admixture which meets the requirements of ASTM C 260, AASHTO M 154 and CHD-C 13.

### ADVANTAGES OF AIR ENTRAINMENT:

The entrainment of air in concrete results in the following improvements in concrete quality:

- Increased resistance to damage from freezing and thawing
- Increased resistance to scaling from deicing salts
- Reduced permeability—increased watertightness
- Reduced segregation and bleeding
- Improved plasticity and workability
- Improved properties of concrete block, and pipe.

Concrete durability research has established that the best protection for concrete from the adverse effects of freeze/thaw cycles and deicing salts results from: (a) proper air content in the hardened concrete; (b) a suitable air-void system in terms of bubble size and spacing; and (c) adequate concrete strength, assuring the use of sound aggregates and proper mixing, placing, handling and curing techniques.

Control of air content should be based upon determinations made on concrete at the time of placement, following adjustment of the batch to proper consistency (slump). The dosage rate of an air-entraining admixture depends on the air content to be obtained along with many other factors. The amount normally required is reduced by the introduction of a water-reducing, set-controlling admixture.

When unusually low or high amounts of an air-entraining admixture are required to achieve normal ranges of air content or if the required amount of air-entraining admixture necessary to achieve required levels of air content is observed to change significantly under given conditions, the reason should be investigated. In such cases, it is especially important to determine: (a) that a proper amount of air is contained in the fresh concrete at the point of placement; and (b) that a suitable air-void system is being obtained in the hardened concrete.

### FEATURES:

**Ready to Use**—Solution is the proper concentration for rapid, accurate dispensing.

**Compatible for Use**—MB AE 90 admixture is compatible with concrete containing other admixtures; water-reducers, high-range water-reducers, accelerators, retarders, and water repellents.

The use of MB AE 90 air-entraining admixture with Master Builders water-reducing, set-controlling admixtures forms a desirable combination for producing high-quality normal or lightweight concrete. Heavyweight concrete normally does not contain entrained air.

**NOTE:** When two or more admixtures are used, each must be added to the mix separately (through dispensers or manually) and must not be mixed with each other prior to adding to the concrete mix.

For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate. When using lightweight fine aggregate, field evaluations should be conducted to determine the best location to dispense the air-entraining admixture—on the damp, fine aggregate or with the initial batch water.

### USAGE INFORMATION:

MB AE 90 admixture is a ready-to-use solution. Do not dilute or mix it with any other admixture.

Add MB AE 90 admixture to the concrete mix using a dispenser designed for air-entraining admixtures; or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.

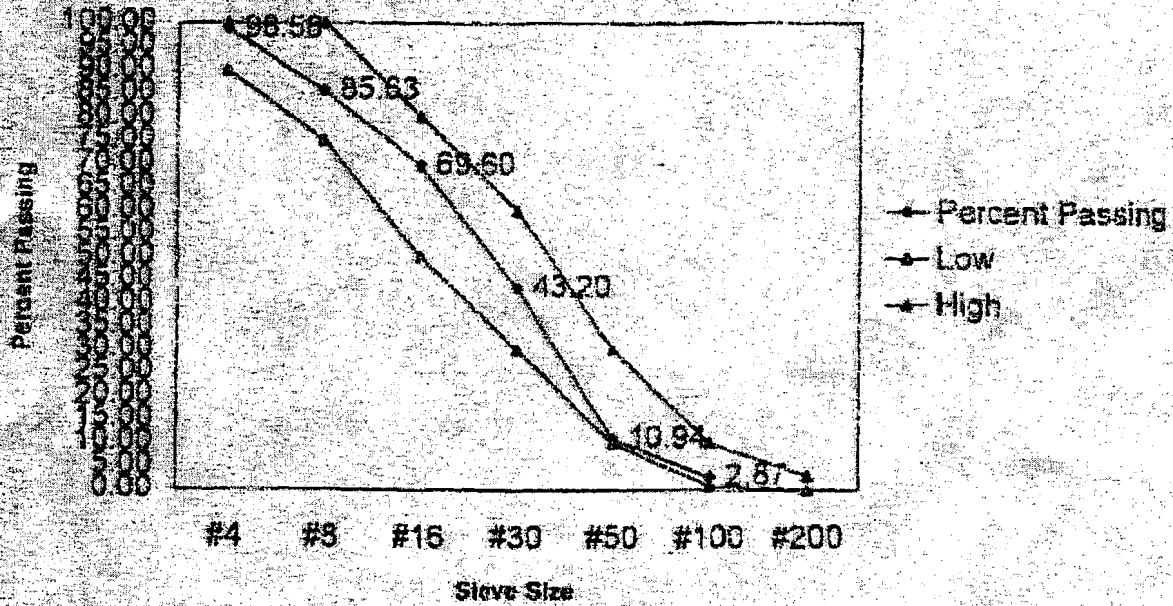
There is no standard dosage rate for MB AE 90 admixture. The exact quantity of air-entraining admixture needed for a given air content of concrete is not predictable because of differences in concrete-making materials. Typical factors which might influence the amount of entrained air are: temperature, cement, sand gradation, sand-aggregate ratio, slump, means of conveying and placing, use of extra fine materials such as fly ash, etc.

**VALLEY SAND & GRAVEL, INC.**  
**CONCRETE SAND AGGREGATE TEST**  
 Scottsville Plant (ASTM C332)

6/28/05

US Sieve Sizes	Weight Retained	% Retained	Cumulative % Retained	% Passing	NYSDOT Specification
#4	14.20	1.42	1.42 %	98.58 %	100-00
#8	129.79	12.95	14.37 %	85.63 %	80-100
#15	160.50	15.83	30.40 %	69.60 %	50-80
#30	264.30	26.40	56.80 %	43.20 %	30-60
#50	323.10	32.27	89.05 %	10.94 %	10-30
#100	80.80	8.07	97.13 %	2.87 %	1%-10%
#200	15.50	1.55 %	%	%	0-5
Pan	12.20	1.22 %			
<b>Total</b>	<b>1001.30</b>	<b>FM:</b>	<b>2.89</b>	<b>2.7-2.9</b>	

classifier settings: 1( ) 2( ) 3( ) 4( ) 5( ) 6( ) 7( ) 8( ) 9( )



*Handwritten notes:*  
 OK  
 6/28/05  
 JHEW



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

Submittal Status: **APPROVED AS NOTED**

Reviewed By: **John C.Kuhn** Date: **21-Sep-05**

Reviewed By: **Jon S. Fox** Date: **23-Sep-05**

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**Submittal/ Specification No.: 28**  
**Contractor's Submittal No.: 28**  
**Submittal Name: Grout Tubes**  
**Manufacturer/Supplier: Rochester Plumbing**

1. Submittal No. 28 dated 7 September 2005 is approved as noted based on the review and approval of Hartman Engineering.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.





**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8			SUBMITTAL NO.:	28
PROJECT NO.:	0016744			TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.			NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546			DATE:	09/07/05
PHONE:	585-889-8800	FAX:	585-889-6008		

**TYPE OF SUBMITTAL** (check one):

<input checked="" type="checkbox"/> Product data	<input type="checkbox"/> Warranty	<input type="checkbox"/> Operations & Maintenance Data
<input type="checkbox"/> Sample	<input type="checkbox"/> Test Report	<input type="checkbox"/> Shop Drawing
<input type="checkbox"/> Color Selection	<input type="checkbox"/> Record Document	<input type="checkbox"/> Work Plan
<input type="checkbox"/> Schedule	<input type="checkbox"/> Performance data	<input type="checkbox"/> Other -

<b>DESCRIPTION OF SUBMITTAL:</b>			Product Name:		
Supplier Name:	Rochester plumbing		Manufacturer:		
Address:	Mill street, Rochester NY 14609		Address:		
Phone:		Fax:		Phone:	
REFERENCES:	Section No.(s)		Drawing No.(s)		
	Part/Paragraph No.		Detail Reference No.		

ENGINEER'S ACTION			CONTRACTOR'S APPROVAL STAMP		
SHOP DRAWING REVIEW					
<input type="checkbox"/>	Approved	Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time.			
<input type="checkbox"/>	Approved as Corrected				
<input type="checkbox"/>	Revise and Resubmit	Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.			
<input type="checkbox"/>	Rejected				

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.  APPROVED BY DESIGN ENGINEER Richard G. Hartman 9/7/05  By _____ Date _____	RECEIVED STAMP DATE  
--	-----------------------------

Printer Friendly

Page 1 of 1

03-303

From: "" <jayd@cpward.com>  
To: John.Kuhn@erm.com  
CC: jon.fox@erm.com, NancyRae.Reese@erm.com, Hartman@hartmanengineering.com  
Date: Wed, September 7, 2005 5:41 am  
Subject: Submittal 28

---

To all ,

The grout tubes are standard 2" pvc schedule 40 pipe with couplings and caps to match.

Jay



## SUBMITTAL REVIEW SHEET

Jefferson Road Facility  
B2SA Soil Excavation  
NYSDEC Voluntary Cleanup Program #V00126-8  
ERM Project Number 0016744

Project Location: **Henrietta, New York**  
Contractor: **C.P. Ward, Inc.**  
Contractor Project Manager **Mr. Kenneth Stewart**  
Fax: **585-889-6008**

Submittal Return Date: **23-Sep-05**

Submittal Status: **APPROVED**

Reviewed By: **John C.Kuhn**

Date: **21-Sep-05**

Reviewed By: **Jon S. Fox**

Date: **23-Sep-05**

---

**Submittal/ Specification No.: 29**  
**Contractor's Submittal No.: 29**  
**Submittal Name: Splice Plates**  
**Manufacturer/Supplier: C.P. Ward**

1. Submittal No. 29 dated 7 September 2005 is accepted as is.

ERM's review and action on this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in the Contract Documents and conformance with the design concept of the completed project as a whole. Contractor is and ERM is NOT responsible for all matters relating to fabrication, shipping, handling, storage, assembly, installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.



**Environmental Resources Management**  
 5788 Widewaters Parkway  
 DeWitt, New York 13214

**SUBMITTAL COVER SHEET**

PROJECT NAME:	B2SA Soil Remediation - 755 Jefferson Road Facility NYSDEC Voluntary Cleanup Program #V00126-8		SUBMITTAL NO.:	29
PROJECT NO.:	0016744		TRADE:	Environmental Construction
CONTRACTOR:	CP Ward, Inc.		NO. OF ATTACHED PAGES:	1
ADDRESS:	100 River Road Scottsville NY 14546		DATE:	09/07/05
PHONE:	585-889-8800	FAX:	585-889-6008	

**TYPE OF SUBMITTAL (check one):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Product data | <input type="checkbox"/> Warranty         | <input type="checkbox"/> Operations & Maintenance Data |
| <input type="checkbox"/> Sample                  | <input type="checkbox"/> Test Report      | <input type="checkbox"/> Shop Drawing                  |
| <input type="checkbox"/> Color Selection         | <input type="checkbox"/> Record Document  | <input type="checkbox"/> Work Plan                     |
| <input type="checkbox"/> Schedule                | <input type="checkbox"/> Performance data | <input type="checkbox"/> Other -                       |

**DESCRIPTION OF SUBMITTAL:**

Supplier Name:	C.P. Ward Inc	Product Name:	
Address:	100 River Road Scottsville, NY 14546	Manufacturer:	
Phone:	585-889-8800	Address:	
Fax:		Phone:	
		Fax:	
REFERENCES:	Section No.(s)	Drawing No.(s)	03-303 Details
	Part/Paragraph No.	Detail Reference No.	6

**ENGINEER'S ACTION**

**SHOP DRAWING REVIEW**

- |                          |                       |   |
|--------------------------|-----------------------|---|
| <input type="checkbox"/> | Approved              | Fabrication/Installation may be undertaken. Approved does not authorize changes to the Contract Sum or Contract Time. |
| <input type="checkbox"/> | Approved as Corrected |   |
| <input type="checkbox"/> | Revise and Resubmit   | Fabrication and/or Installation MAY NOT be undertaken. In resubmitting, limit corrections to items marked.            |
| <input type="checkbox"/> | Rejected              |   |

**CONTRACTOR'S APPROVAL STAMP**

RECEIVED STAMP DATE

Review/approval neither extends nor alters any contractual obligations of the Engineer or Contractor.

APPROVED BY DESIGN ENGINEER  
 Richard G. Hartman 9/7/05

**RECEIVED**  
 9/7/2005

By \_\_\_\_\_ Date \_\_\_\_\_

Printer Friendly

03-303

From: "" <jayd@cpward.com>  
To: John.Kuhn@erm.com  
CC: jon.fox@erm.com, NancyRae.Reese@erm.com, Hartman@hartmanengineering.com  
Date: Wed, September 7, 2005 5:50 am  
Subject: Submittal 29

---

Splice plates were made from material in stock at C.P. Wards shop,  
Checked by Harold Ford from Hartman Engineering at our shop  
previously.

*Appendix D*  
*Record ("As-Built") Drawings*

*Appendix E*

*Source and Quantity of Fill Materials*



001585

CONCRETE DELIVERY TICKET

Date 9/16 2005

Sold to C. P. Ward

Address \_\_\_\_\_

Delivery Address U.S. 13

County Winn-Dixie

Grout for  
top 5'  
of sloping

AUTOMATICALLY  
PRINTED



TO INSURE YOU  
OF ACCURACY

Client Job No. 194469

OPERATOR <u>M.C.</u>	Cash	TRUCK NO. <u>10-400</u>	TIME A.M. P.M.
	Charge		

YOUR SALE NO. <u>1715</u>	CEMENT WHEEL REV. - FINISH <u>0149</u>	10ths <u>4</u>
<u>1714</u>	<u>0000</u>	<u>0</u>

PREVIOUS SALE NO. \_\_\_\_\_ CEMENT WHEEL REV. - START \_\_\_\_\_

PRODUCT DELIVERED 4.8 cu yds / hr waiting  
CEMENT WHEEL CONVERSION

ACT. REV.	FACTOR	CY	PRICE	TOTAL AMT.
<u>3000</u>	<u>31</u>	<u>4.8</u>		

TAX %: \_\_\_\_\_ RECEIVED CITY SHOWN ABOVE \_\_\_\_\_ TOTAL \$ \_\_\_\_\_

CUSTOMER SIGN HERE AFTER DELIVERY \_\_\_\_\_ FOR THE COMPANY \_\_\_\_\_



# MANITOU CONCRETE CO.

• 1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



CONCRETE DISPATCHER  
424-6040

8801

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

DELIVERED TO			CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
			55	3433	88956
			DATE	TIME	ARRIVED
			10/30/85	10:14AM	10:38
			START	FINISH	11:03
			WAITING	PRICE	SUBTOTAL
					TAX
					TOTAL
INSPECTED APPROVED AND RECEIVED BY					WATER ADDED
X <i>Andie Wilson</i>					10
PLANT	TRUCK	DRIVER			
YARDS	DELIVERED	SLUMP	BATCH NO.		
MIX	DESCRIPTION				

TRUCK	TRUCK	TRUCK	TICKET NO.	TICKET NO.	TICKET NO.	TIME	DATE
88956	88956	88956	88956	88956	88956	10:19	09/30/85
LOAD SIDE	MIX	LOAD	LOAD	LOAD	LOAD	LOAD	LOAD
3.50 yd	0129						
MATERIAL	DESIGN	REQ'D	BATCHED	VAR	% VAR	WET STORE	
AGG INTL	540 lb	1750 lb	1720	-30	-1.71%		
AGG SAND	2975 lb	12307 lb	12192	115	-9.3%	5.000% M	
CEMENT F	300 lb	1050 lb	1049	-1	-1.0%		
WATER	300.0 lb	344.7 lb	368.8	+ 24.1	4.92%		
NON-SIMULATED	NUM BATCHES: 1		MANUAL	10:19:25		AUTO	10:19:25

TOP COMPLETED LOAD TIME (01:46) -- TARES --  
AGG SCALE 811 ST: 10515 ET: 410 CEM SCALE 811 ST: 210 WET SCALE 811 ST: 1215 ET: 1215

# MANITOU CONCRETE CO.

• 1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



CONCRETE DISPATCHER  
424-6040

88019

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

DELIVERED TO			CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
[Handwritten Address]			11111	22222	11111
DATE		TIME	ARRIVED	START	FINISH
11/20/85		11:20 AM	1037	1103	1237
WAITING	PRICE	SUBTOTAL	TAX	TOTAL	
INSPECTED, APPROVED AND RECEIVED BY					WATER ADDED
X [Signature]					10
PLANT	TRUCK	DRIVER			
YARDS	DELIVERED	SLUMP	BATCH NO.		
			194469		
MIX	DESCRIPTION				

ITEM	UNIT	QTY	TICKET	VAR	% VAR	DATE
WATER	CU YD	1.00	194469	1.00	0.0%	11/20/85
CEMENT	CU YD	1.00	194469	1.00	0.0%	11/20/85
AGGREGATE	CU YD	1.00	194469	1.00	0.0%	11/20/85
ADDITIONAL	CU YD	1.00	194469	1.00	0.0%	11/20/85
CEMENT	CU YD	1.00	194469	1.00	0.0%	11/20/85
WATER	CU YD	1.00	194469	1.00	0.0%	11/20/85
NON SIMULATED NRM BATCHES: 1						
MANUAL 11:20:36 AUTO 11:20:36						

CONCRETE DISPATCHER 424-6040  
 100 SCALE 2: 11: 22 lb ET: 44 lb DEM SCALE B: 1 51: 19 lb ET: 0 lb WAT SCALE B: 1 51: 0 lb ET: 0 lb



# MANITOU CONCRETE CO.

• 1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010

CONCRETE DISPATCHER  
424-6040

40497

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

DELIVERED TO			CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
			901191	2740-	8195
DATE		TIME	ARRIVED	START	FINISH
10/15/87		11:30 AM			
WAITING	PRICE	SUBTOTAL	TAX	TOTAL	
INSPECTED APPROVED AND RECEIVED BY					WATER ADDED
X					0
PLANT	TRUCK	DRIVER			
YARDS	DELIVERED	SLUMP	BATCH NO.		
MIX	DESCRIPTION				

JOB 194469

LOAD COMPLETED LOAD TIME: 1:40 TAPES  
JOB SCALE 8:1 87: 0 16 DEM SCALE 8:1 87: 0 16 87: 0 16 MAT SCALE 8:1 87: 8 16 87: 4 16

1N219613

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



194469

CONCRETE DISPATCHER  
424-6040

ITEM 9

88851

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

DELIVERED TO		CUSTOMER NO.	CUSTOMER P.O.		TICKET NO.
		90111	2343		62510
DATE		TIME	ARRIVED	START	FINISH
10/14/65		12:45 PM	1320	1330	1430
WAITING	PRICE	SUBTOTAL		TAX	TOTAL
INSPECTED APPROVED AND RECEIVED BY:					WATER ADDED
X <i>Arthur Williams</i>					Ø
PLANT	TRUCK	DRIVER			
YARDS	DELIVERED	SLUMP	BATCH NO.		
MIX	DESCRIPTION				

MATERIAL	DESIGN QTY.	REQU. QTY.	DELIVERED	VAR.	% VAR.	MOISTURE
AGG. INTK.	1400 lb	11200 lb	11133	-67	-6.0%	
AGG. FINE	1600 lb	2500 lb	2533	33	1.2%	6.00% M
CEMENT E	100 lb	900 lb	794	-6	-7.5%	
WATER	200.0 lb	1000.0 lb	1090.8	70.8	7.0%	
ADJ.	2000.0 lb	2000.0 lb	2036.8	36.8	1.8%	
NET DELIVERED				MANUAL	12:45:25	AUTO 12:45:25

10/14/65 12:45 PM 1320 1330 1430

2/19/13

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
 ROCHESTER NEW YORK 14625  
 (585) 381-7010



CONCRETE DISPATCHER  
 424-6040

194469  
 ITEM 9

40829

NOTE: Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

IMPORTANT: Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant of complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

FINANCE CHARGES: A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

470-8

DELIVERED TO			CUSTOMER NO.	CUSTOMER P.O.		TICKET NO.
1125 KENTWOOD RD ROCHESTER, NY 14625			194469	1150 PENFIELD RD		40829
DATE		TIME	ARRIVED	START	FINISH	
2/19/13		10:40	11:10	11:15	1:30	
WAITING	PRICE	SUBTOTAL	TAX	TOTAL		
INSPECTED APPROVED AND RECEIVED BY						WATER ADDED
<div style="font-size: 2em; text-align: center;">X</div>						
PLANT	TRUCK	DRIVER				
YARDS	DELIVERED	SLUMP	BATCH NO.			
MIX	DESCRIPTION					

RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 CEMENT: 22.00 SCALE: 50.00  
 SAND: 0.00 SCALE: 50.00  
 GRAVEL: 0.00 SCALE: 50.00  
 WATER: 0.00 SCALE: 50.00  
 ADMIXTURE: 0.00 SCALE: 50.00  
 TOTAL: 22.00 SCALE: 50.00

1W219613

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



194469  
ITEM # 9

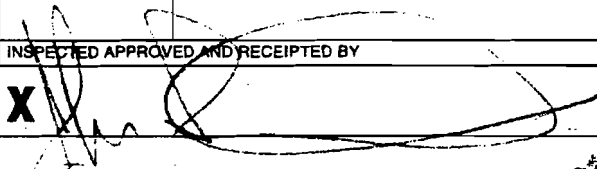
CONCRETE DISPATCHER  
424-6040

4099

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

DELIVERED TO				CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
DATE				TIME	ARRIVED	START
WAITING				PRICE	SUBTOTAL	TAX
INSPECTED APPROVED AND RECEIVED BY						WATER ADDED
PLANT	TRUCK	DRIVER				
YARDS	DELIVERED	SLUMP	BATCH NO.			
MIX	DESCRIPTION					

NO.	QTY	UNIT	PRICE	TOTAL
44	1.75			
54	0.75			
101	0.25			
1353.6	0.9			
16.23	0.23			
TOTAL			12.28	11

TARES: \_\_\_\_\_

NET WEIGHT: \_\_\_\_\_

GROSS WEIGHT: \_\_\_\_\_

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
 ROCHESTER NEW YORK 14625  
 (585) 381-7010

219613

194469

ITEM #9

CONCRETE DISPATCHER

424-6040

4094

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our plant. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

DELIVERED TO				CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
DATE				TIME	ARRIVED	START
WAITING				PRICE	SUBTOTAL	TAX
TOTAL						
INSPECTED APPROVED AND RECEIVED BY						WATER ADDED
PLANT	TRUCK	DRIVER		X		
YARDS	DELIVERED	SLUMP	BATCH NO.			
MIX	DESCRIPTION					

3 to -8"

MANITOU CONCRETE CO. 1150 PENFIELD ROAD ROCHESTER, N.Y. 14625  
 TEL: (585) 381-7010 FAX: (585) 381-7011  
 CEMENT: 1200 LB 2400 LB  
 WATER: 400.0 LB  
 TOTAL: 2800 LB  
 44 16 AGG SCALE: 1 ST: 0 16 CEM SCALE: 1 ST: 0 16

219613

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



194469

ITEM # 9

CONCRETE DISPATCHER  
424-6040

8904

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

8 to -8

DELIVERED TO				CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
[Faded text]				201131	[Faded]	621850
DATE		TIME	ARRIVED	START	FINISH	
JUN 21 1985		11:20 AM	11:52	11:57	12:18	
WAITING	PRICE	SUBTOTAL	TAX	TOTAL		
INSPECTED, APPROVED/AND RECEIPTED BY						WATER ADDED
X Andrew W. Stevens						32
PLANT	TRUCK	DRIVER				
YARDS	DELIVERED	SLUMP	BATCH NO.			
MIX	DESCRIPTION					

DATE	USER	CONTR	DISP	LABEL	NUM	TICKET	NUM	TICKET	ID	TIME	DATE
11:20	217	005	621850	201131	20443	11:20	10	217	005		
MATERIAL	DESIGN	REQ	REQUIRE	BATCHED	VAR	% VAR	AMOUNT				
COB INTL	1400	16	11200	11029	-111	-99%					
AGGREGATE	1670	16	25361	24133	-228	-90%	6.000% B				
CEMENT	130	16	800	816	16	2.00%					
WATER	554.0	16	1474.0	1486.4	-7.6	-38%					
REA	4.000	oz	28.000	31.379	-3.621	-1.94%					
NON-REGULATED MIX BATCHES: 1 MANUAL 11:20:33 AUTO 11:20:33											

TOTAL COMPLETED: 104-0 (104) 15 --- TAMES  
HUB SCALE Btl 0: 0 lb ET: 4- lb CEM SCALE Btl 0: 0 lb ET: 4- lb WAT SCALE Btl 0: 4 lb ET: 4 lb



194469

Item # 9

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



CONCRETE DISPATCHER  
424-6040

89521

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

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large area

DELIVERED TO			CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
			194469	3	89521
DATE		TIME	ARRIVED	START	FINISH
11/17/85		12:26	1:10	1:30	2:30
WAITING	PRICE	SUBTOTAL	TAX	TOTAL	
INSPECTED APPROVED AND RECEIVED BY					WATER ADDED
X <i>[Signature]</i>					10
PLANT	TRUCK	DRIVER			
YARDS	DELIVERED	SLUMP	BATCH NO.		
MIX	DESCRIPTION				

TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	
REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	REQS	
LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	LOAD SIDE	
9.00 YD																				
MATERIAL	REQUIRED	BATCHES	VAR	% VAR	WASTAGE															
AGG INTR	1400 YD	11200 YD	-45	-3.2%																
AGG SAND	1870 YD	5227 YD	-94	-5.1%	5.00%															
CEMENT	100 YD	800 YD	7	0.8%																
WATER	270.0 YD	2160.0 YD	-2.3	-1.1%																
GR	4.0000 YD	32.0000 YD	0.3600	1.1%																
NON-SIMULATED NON-BATCHES: 1																				

LOAD COMPLETE LOAD TIME: 03:30 --- TIMES ---  
 SCALE B: ST: 49 LB ET: 22 LB DEM SCALE A: ST: 19 LB ET: 9 LB WAIT SCALE B: ST: 0 LB ET: 0 LB

*[Handwritten notes]*

194469

ITEM #9



# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010

CONCRETE DISPATCHER  
424-6040

41223

**NOTE:** Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

XXXX  
AICA

DELIVERED TO		CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
			3	
DATE		TIME	ARRIVED	START
			2 57	3 02
WAITING		PRICE	SUBTOTAL	TAX
INSPECTED APPROVED AND RECEIVED BY				WATER ADDED
X				
PLANT	TRUCK	DRIVER		
YARDS	DELIVERED	SLUMP	BATCH NO.	
MIX	DESCRIPTION			

ITEM	QTY	UNIT	PRICE	TOTAL	%	MARK	SLUMP
100 LB	100	LB	0.35	35.00	22	0.35	
100 LB	100	LB	0.35	35.00	54	0.75	
100 LB	100	LB	0.35	35.00	39	0.75	
100 LB	100	LB	0.35	35.00	1157.4	12.2	1.07%
100 LB	100	LB	0.35	35.00	15.22	0.78	4.88%

YARDS: 3 1/2

194469

ITEM # 5

# MANITOU CONCRETE CO.

1150 PENFIELD ROAD  
ROCHESTER NEW YORK 14625  
(585) 381-7010



CONCRETE DISPATCHER  
424-6040

89671

NOTE: Customer will be allowed 60 minutes free unloading time after arrival of truck on job. Delay caused by customer over this time will be charged to the customer. No cancellation accepted after concrete has been loaded in trucks at our point. Not responsible for damage done when delivery is off public road.

**IMPORTANT:** Transit mixed concrete represents labor as well as materials, therefore accounts are due when rendered. The cement used in this concrete is guaranteed to conform to the present specifications of the American Society For Testing Materials and the United States Government. Since we have no control over the use of this concrete, we therefore cannot guarantee or assume responsibility for the finished work in which it is used. Our concrete has a mix designed in accordance with ASTM C-94 and ACI 301 Standards to meet the strength required by the customer or his agent. It contains the quantities and type of materials that are listed on our delivery ticket. The addition of water, delay and unloading and other similar factors occurring after the truck has left the plant not complying with ASTM C-94 and ACI 301 Standards make it impossible to guarantee the strengths as indicated and they are given only as a guide. ACCORDINGLY WE MAKE NO OTHER GUARANTEE OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, OR AS TO THE MERCHANTABILITY OR FITNESS, SUITABILITY OR DURABILITY FOR ANY PARTICULAR PURPOSE.

**FINANCE CHARGES:** A rate of 1 1/2% per month (18% annually) will be charged on all past due invoices.

crete floor

DELIVERED TO			CUSTOMER NO.	CUSTOMER P.O.	TICKET NO.
			901131	26 23483	63809
DATE		TIME	ARRIVED	START	FINISH
11-03-05		12:31 PM	15 05	15 11	
WAITING	PRICE	SUBTOTAL	TAX	TOTAL	
INSPECTED APPROVED AND RECEIVED BY					WATER ADDED
X <i>[Signature]</i>					
PLANT	TRUCK	DRIVER			
YARDS	DELIVERED	SLUMP	BATCH NO.		
MIX	DESCRIPTION				

ITEM	UNIT	QTY	REQUIRE	BATCHED	VAR	% VAR	MOISTURE
WATER	CU YD	1.00	1.00	1.00	0.00	0.0%	
PORTLAND CEMENT	BA	1.00	1.00	1.00	0.00	0.0%	
AGGREGATE	CU YD	1.00	1.00	1.00	0.00	0.0%	
ADDITIONAL WATER	CU YD	0.00	0.00	0.00	0.00	0.0%	
ADDITIONAL PORTLAND CEMENT	BA	0.00	0.00	0.00	0.00	0.0%	
ADDITIONAL AGGREGATE	CU YD	0.00	0.00	0.00	0.00	0.0%	
ADDITIONAL ADJUTANTS	CU YD	0.00	0.00	0.00	0.00	0.0%	
TOTAL		1.00	1.00	1.00	0.00	0.0%	

NOTES: Manual Feed Documented.  
 UNIT: 1 CU YD = 27 CU FT. 1 BA = 132.45 LB. 1 CU YD = 27 CU FT.  
 1 CU YD = 27 CU FT. 1 BA = 132.45 LB. 1 CU YD = 27 CU FT.

*Appendix F*  
*Laboratory Analytical Reports*

RECEIVED

1/38

SEVERN  
TRENT

STL

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-9636, A05-9637

STL Project#: NY5A9504

SDG#: 9636

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo



Brian J. Fischer  
Project Manager

09/22/2005

## STL Buffalo Current Certifications

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/GS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5960101	B2SA-GROUTSAND	SOIL	09/01/2005	13:50	09/02/2005	10:17
A5960101MS	B2SA-GROUTSAND	SOIL	09/01/2005	13:50	09/02/2005	10:17
A5960101SD	B2SA-GROUTSAND	SOIL	09/01/2005	13:50	09/02/2005	10:17
A5960105	TRIP BLANK	WATER	09/01/2005		09/02/2005	10:17

## METHODS SUMMARY

Job#: A05-9636,A05-9637STL Project#: NY5A9504SDG#: 9636Site Name: ERM - 00176744 JEFFERSON ROAD

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - 3 COMPOUNDS	SW8463 8260
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - 22 COMPOUNDS	SW8463 8270
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.



## NON-CONFORMANCE SUMMARY

Job#: A05-9636,A05-9637STL Project#: NY5A9504SDG#: 9636Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-9636

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
Migrated sample from job A05-9601, all volume housed in A05-9601.

A05-9637

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
Migrated sample from job A05-9601, all volume housed in A05-9601.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The recovery of sample B2SA-GROUTSAND Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Iron and Zinc. Sample matrix is suspect. However, the LCS (A5B1359901) was acceptable.

The LCS (Lot D045540) recovery for Antimony and Iron fell outside of the quality control limits, however, the LCS (A5B1359901) value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 09/22/2005  
 Time: 16:56:28

ERM - 0017674 JEFFERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III  
 METHOD 8260 - 3 COMPOUNDS

Job: AN0326

Client ID		B2SA-GROUTSAND							
Job No		A05-9636 A5960101							
Sample Date		09/01/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	26	NA		NA		NA	
Benzene	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	5	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	92	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	95	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	81	50-200	NA		NA		NA	
Toluene-D8	%	102	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	90	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	102	61-136	NA		NA		NA	

8/38

Client ID		B2SA-GROUTSAND							
Job No		A05-9637		A5960101					
Sample Date		09/01/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	350	NA		NA		NA	
Acenaphthylene	UG/KG	ND	350	NA		NA		NA	
Anthracene	UG/KG	ND	350	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	350	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	350	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	350	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	350	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	350	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/KG	ND	350	NA		NA		NA	
Carbazole	UG/KG	ND	350	NA		NA		NA	
Chrysene	UG/KG	ND	350	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	350	NA		NA		NA	
Dibenzofuran	UG/KG	ND	350	NA		NA		NA	
Di-n-butyl phthalate	UG/KG	ND	350	NA		NA		NA	
Di-n-octyl phthalate	UG/KG	ND	350	NA		NA		NA	
Fluoranthene	UG/KG	ND	350	NA		NA		NA	
Fluorene	UG/KG	ND	350	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	350	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	350	NA		NA		NA	
Naphthalene	UG/KG	ND	350	NA		NA		NA	
Phenanthrene	UG/KG	ND	350	NA		NA		NA	
Pyrene	UG/KG	ND	350	NA		NA		NA	
<b>IS/SURROGATE(S)</b>									
1,4-Dichlorobenzene-D4	%	95	50-200	NA		NA		NA	
Naphthalene-D8	%	100	50-200	NA		NA		NA	
Acenaphthene-D10	%	102	50-200	NA		NA		NA	
Phenanthrene-D10	%	113	50-200	NA		NA		NA	
Chrysene-D12	%	141	50-200	NA		NA		NA	
Perylene-D12	%	118	50-200	NA		NA		NA	
Nitrobenzene-D5	%	66	41-120	NA		NA		NA	
2-Fluorobiphenyl	%	67	50-120	NA		NA		NA	
p-Terphenyl-d14	%	78	53-137	NA		NA		NA	
Phenol-D5	%	71	41-120	NA		NA		NA	
2-Fluorophenol	%	64	33-120	NA		NA		NA	
2,4,6-Tribromophenol	%	78	53-132	NA		NA		NA	

Date: 09/22/2005  
 Time: 16:56:39

ERM - 0017674 PERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III  
 ERM - 12 METALS SW8463-6010/7471 - S

Job: AN0326

Client ID		BZSA-GROUTSAND							
Job No		A05-9636	A5960101						
Sample Date		09/01/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Antimony - Total	MG/KG	ND	16.0	NA		NA		NA	
Arsenic - Total	MG/KG	ND	2.1	NA		NA		NA	
Beryllium - Total	MG/KG	0.21	0.21	NA		NA		NA	
Cadmium - Total	MG/KG	ND	0.21	NA		NA		NA	
Chromium - Total	MG/KG	4.4	0.53	NA		NA		NA	
Copper - Total	MG/KG	15.2	1.1	NA		NA		NA	
Iron - Total	MG/KG	6280	10.7	NA		NA		NA	
Lead - Total	MG/KG	7.4	1.1	NA		NA		NA	
Mercury - Total	MG/KG	ND	0.022	NA		NA		NA	
Selenium - Total	MG/KG	ND	4.3	NA		NA		NA	
Silver - Total	MG/KG	ND	0.53	NA		NA		NA	
Zinc - Total	MG/KG	30.8	2.1	NA		NA		NA	

10/38

NA = Not Applicable ND = Not Detected

STL Buffalo

## Batch Quality Control Data

**Chain of  
Custody Record**

**SEVERN  
TRENT**

**STL HP-A**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: **ERM**      Project Manager: **Jon Fox**      Date: **1 Sept. 05**      Chain of Custody Number: **243536**

Address: **5788 Widewaters Pkwy**      Telephone Number (Area Code)/Fax Number: **(315) 445-2554 / 445-2543+**      Lab Number: **1**      Page: **1** of **1**

City: **Dewitt**      State: **NY**      Zip Code: **13214**      Site Contact: **Nancy Reese**      Lab Contact: **Brian Fischer**

Project Name and Location (State): **Jefferson Rd. NY.**      Carrier/Waybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No. **0016744**

Sample I.D. No. and Description <small>(Containers for each sample may be combined on one line)</small>	Date	Time	Matrix					Containers & Preservatives														Special Instructions/ Conditions of Receipt					
			Air	Aqueous	Sed.	Soil	Concrete	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ice	VOCs	SVDs	Metals	ICLP SVs	ICLP SVs II	ICLP R&R	Total TPH		Total PCBs	Ignitability	pH	Total Metals	
BZSA - Grout sand	1 Sep 05	1350			X			X									X	X	X								see attached sheet (bottle request)
BZSA - Soil RO	1 Sep 05	1513				X		X									X	X	X	X	X	X					
BZSA - Core RO	1 Sep 05	1523				X		X									X	X	X	X	X	X					
BZSA - GW(090105)	1 Sep 05	1551	X					X	X								X					X	X				

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

QC Requirements (Specify)

1. Relinquished By: <b>N. Reese</b>	Date: <b>2 Sep 05</b>	Time: <b>1017</b>	1. Received By: <b>AG STL</b>	Date: <b>09045</b>	Time: <b>1017</b>
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: \_\_\_\_\_

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample. PINK - Field Copy

2.0

38/38



RECEIVED

1/52

SEVERN  
TRENT

STL

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-9638

STL Project#: NY5A9504

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo



Brian J. Fischer  
Project Manager

09/29/2005

## STL Buffalo Current Certifications

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5960103	B2SA-CONCRE	SOTHER	09/01/2005	15:23	09/02/2005	10:17
A5960102	B2SA-SOILRO	SOIL	09/01/2005	15:13	09/02/2005	10:17

## METHODS SUMMARY

Job#: A05-9638STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROAD

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
ERM - METHOD 8082 - POLYCHLORINATED BIPHENYLS - S	SW8463 8082
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Flashpoint	SW8463 1010
Leachable pH	SW8463 9045
SGT Total Petroleum Hydrocarbons	MCAWW 1664 SGT
Toxicity Characteristic Leaching Procedure	SW8463 1311

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-CONFORMANCE SUMMARY

Job#: A05-9638STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-9638

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
Migrated sample from job A05-9601, all volume housed in A05-9601.

GC/MS Volatile Data

The analyte Acetone was detected in the Extractor Blank, sample Z-1470, at a level below the project established reporting limit. Acetone was not detected in the associated samples.

The analyte Methylene Chloride was detected in the Extractor Blank, sample Z-1470, at a level above the project established reporting limit. Methylene Chloride was detected in the associated samples at a similar concentration. Due to the low required reporting limits and the expanded analyte list these samples were not re-extracted.

GC/MS Semivolatiles Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8082, Aroclor 1232 exhibited positive bias and a % difference result greater than 15% in the continuing calibration verification analyzed on 09/06/2005 at 11:36. No corrective action was taken; all field samples are non-detect for this analyte.

Metals Data

The analyte Barium was detected in the TCLP Extractor Blank (A5B1367201) at a concentration above SIL's standard quantitation limit. Sample B2SA-CONCRO associated with the blank was evaluated and determined to be at least five times less than the TCLP Regulatory Limit. The sample data was therefore accepted and no corrective action was performed.

The analyte Barium was detected in the TCLP Extractor Blank (A5B1367201) at a level above the project established reporting limit. However, sample B2SA-SOILRO had levels of Barium greater than ten times that of the TCLP Extractor Blank value, therefore, no corrective action was necessary.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
B2SA-SOILRO	A5960102	8260	10.00	007
B2SA-CONCRO	A5960103	8260	10.00	007

---

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.



Client ID		B2SA-CONCRO		B2SA-SOILRO					
Job No	Lab ID	A05-9638	A5960103	A05-9638	A5960102				
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	50	ND	50	NA		NA	
Benzene	UG/L	ND	10	ND	10	NA		NA	
Bromodichloromethane	UG/L	ND	10	ND	10	NA		NA	
Bromoform	UG/L	ND	10	ND	10	NA		NA	
Bromomethane	UG/L	ND	10	ND	10	NA		NA	
2-Butanone	UG/L	ND	50	ND	50	NA		NA	
Carbon Disulfide	UG/L	ND	10	ND	10	NA		NA	
Carbon Tetrachloride	UG/L	ND	10	ND	10	NA		NA	
Chlorobenzene	UG/L	ND	10	ND	10	NA		NA	
Chloroethane	UG/L	ND	10	ND	10	NA		NA	
Chloroform	UG/L	ND	10	ND	10	NA		NA	
Chloromethane	UG/L	ND	10	ND	10	NA		NA	
Cyclohexane	UG/L	ND	10	ND	10	NA		NA	
1,2-Dibromoethane	UG/L	ND	10	ND	10	NA		NA	
Dibromochloromethane	UG/L	ND	10	ND	10	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	10	ND	10	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	10	ND	10	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	10	ND	10	NA		NA	
1,4-Dichlorobenzene	UG/L	ND	10	ND	10	NA		NA	
Dichlorodifluoromethane	UG/L	ND	10	ND	10	NA		NA	
1,1-Dichloroethane	UG/L	ND	10	ND	10	NA		NA	
1,2-Dichloroethane	UG/L	ND	10	ND	10	NA		NA	
1,1-Dichloroethene	UG/L	ND	10	ND	10	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	10	ND	10	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	10	ND	10	NA		NA	
1,2-Dichloropropane	UG/L	ND	10	ND	10	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	10	ND	10	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	10	ND	10	NA		NA	
Ethylbenzene	UG/L	ND	10	ND	10	NA		NA	
2-Hexanone	UG/L	ND	50	ND	50	NA		NA	
Isopropylbenzene	UG/L	ND	10	ND	10	NA		NA	
Methyl acetate	UG/L	ND	10	ND	10	NA		NA	
Methylcyclohexane	UG/L	ND	10	ND	10	NA		NA	
Methylene chloride	UG/L	10	10	8 J	10	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	50	ND	50	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	10	ND	10	NA		NA	
Styrene	UG/L	ND	10	ND	10	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	10	ND	10	NA		NA	
Tetrachloroethene	UG/L	ND	10	ND	10	NA		NA	
Toluene	UG/L	ND	10	ND	10	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	10	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	10	ND	10	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	10	ND	10	NA		NA	

9/52

Date: 09/29/2005  
 Time: 15:26:24

ERM - 0017674 PERSON ROAD  
 ERM - PROJECT 0016744 JASON ROAD-GW-LEVEL III  
 METHOD 8260 - TCL VOLATILE ORGANICS

Job: AN0326

Client ID		B2SA-CONCRO		B2SA-SOILRO					
Job No		A05-9638		A05-9638					
Lab ID		A5960103		A5960102					
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	10	ND	10	NA		NA	
Trichlorofluoromethane	UG/L	ND	10	ND	10	NA		NA	
Trichloroethene	UG/L	ND	10	ND	10	NA		NA	
Vinyl acetate	UG/L	ND	50	ND	50	NA		NA	
Vinyl chloride	UG/L	ND	10	ND	10	NA		NA	
Total xylenes	UG/L	ND	30	ND	30	NA		NA	
<b>IS/SURROGATE(S)</b>									
Chlorobenzene-D5	X	89	50-200	84	50-200	NA		NA	
1,4-Difluorobenzene	X	88	50-200	84	50-200	NA		NA	
1,4-Dichlorobenzene-D4	X	79	50-200	73	50-200	NA		NA	
Toluene-D8	X	92	76-122	89	76-122	NA		NA	
p-Bromofluorobenzene	X	89	73-120	87	73-120	NA		NA	
1,2-Dichloroethane-D4	X	94	72-143	90	72-143	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

10/52

Date: 09/29/2005  
Time: 15:26:35

ERM - 00176744 JEFFERSON ROAD  
ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID		B2SA-CONCRO		B2SA-SOILRO					
Job No		A05-9638		A05-9638					
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	150	40	ND	40	NA		NA	
Acenaphthylene	UG/L	ND	40	ND	40	NA		NA	
Acetophenone	UG/L	ND	40	ND	40	NA		NA	
Anthracene	UG/L	40	40	ND	40	NA		NA	
Atrazine	UG/L	ND	40	ND	40	NA		NA	
Benzaldehyde	UG/L	ND	200	ND	200	NA		NA	
Benzo(a)anthracene	UG/L	ND	40	ND	40	NA		NA	
Benzo(b)fluoranthene	UG/L	ND	40	ND	40	NA		NA	
Benzo(k)fluoranthene	UG/L	ND	40	ND	40	NA		NA	
Benzo(ghi)perylene	UG/L	ND	40	ND	40	NA		NA	
Benzo(a)pyrene	UG/L	ND	40	ND	40	NA		NA	
Benzoic acid	UG/L	ND	600	ND	600	NA		NA	
Benzyl alcohol	UG/L	ND	80	ND	80	NA		NA	
Biphenyl	UG/L	16 J	40	ND	40	NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	40	ND	40	NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	40	ND	40	NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	40	ND	40	NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	40	ND	40	NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	40	ND	40	NA		NA	
Butyl benzyl phthalate	UG/L	ND	40	ND	40	NA		NA	
Caprolactam	UG/L	ND	40	ND	40	NA		NA	
4-Chloroaniline	UG/L	ND	40	ND	40	NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	40	ND	40	NA		NA	
2-Chloronaphthalene	UG/L	ND	40	ND	40	NA		NA	
2-Chlorophenol	UG/L	ND	40	ND	40	NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	40	ND	40	NA		NA	
Carbazole	UG/L	270	40	ND	40	NA		NA	
Chrysene	UG/L	ND	40	ND	40	NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	40	ND	40	NA		NA	
Dibenzofuran	UG/L	98	40	ND	40	NA		NA	
Di-n-butyl phthalate	UG/L	ND	40	ND	40	NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	80	ND	80	NA		NA	
2,4-Dichlorophenol	UG/L	ND	40	ND	40	NA		NA	
Diethyl phthalate	UG/L	ND	40	ND	40	NA		NA	
2,4-Dimethylphenol	UG/L	ND	40	ND	40	NA		NA	
Dimethyl phthalate	UG/L	ND	40	ND	40	NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	200	ND	200	NA		NA	
2,4-Dinitrophenol	UG/L	ND	200	ND	200	NA		NA	
2,4-Dinitrotoluene	UG/L	ND	40	ND	40	NA		NA	
2,6-Dinitrotoluene	UG/L	ND	40	ND	40	NA		NA	
Di-n-octyl phthalate	UG/L	ND	40	ND	40	NA		NA	
Fluoranthene	UG/L	27 J	40	ND	40	NA		NA	
Fluorene	UG/L	120	40	ND	40	NA		NA	

11/52

Client ID		B2SA-CONCRO		B2SA-SOILRO					
Job No	Lab ID	A05-9638	A5960103	A05-9638	A5960102				
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Hexachlorobenzene	UG/L	ND	40	ND	40	NA		NA	
Hexachlorobutadiene	UG/L	ND	40	ND	40	NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	180	ND	180	NA		NA	
Hexachloroethane	UG/L	ND	40	ND	40	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	40	ND	40	NA		NA	
Isophorone	UG/L	ND	40	ND	40	NA		NA	
2-Methylnaphthalene	UG/L	88	40	ND	40	NA		NA	
2-Methylphenol	UG/L	ND	40	ND	40	NA		NA	
4-Methylphenol	UG/L	27 J	40	ND	40	NA		NA	
Naphthalene	UG/L	200	40	ND	40	NA		NA	
2-Nitroaniline	UG/L	ND	200	ND	200	NA		NA	
3-Nitroaniline	UG/L	ND	200	ND	200	NA		NA	
4-Nitroaniline	UG/L	ND	200	ND	200	NA		NA	
Nitrobenzene	UG/L	ND	40	ND	40	NA		NA	
2-Nitrophenol	UG/L	ND	40	ND	40	NA		NA	
4-Nitrophenol	UG/L	ND	200	ND	200	NA		NA	
N-nitrosodiphenylamine	UG/L	ND	40	ND	40	NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	40	ND	40	NA		NA	
Pentachlorophenol	UG/L	ND	200	ND	200	NA		NA	
Phenanthrene	UG/L	170	40	ND	40	NA		NA	
Phenol	UG/L	11 J	40	ND	40	NA		NA	
Pyrene	UG/L	14 J	40	ND	40	NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	40	ND	40	NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	40	ND	40	NA		NA	
---IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	112	50-200	119	50-200	NA		NA	
Naphthalene-D8	%	121	50-200	126	50-200	NA		NA	
Acenaphthene-D10	%	123	50-200	130	50-200	NA		NA	
Phenanthrene-D10	%	133	50-200	138	50-200	NA		NA	
Chrysene-D12	%	148	50-200	153	50-200	NA		NA	
Perylene-D12	%	148	50-200	151	50-200	NA		NA	
Nitrobenzene-D5	%	67	52-120	58	52-120	NA		NA	
2-Fluorobiphenyl	%	70	21-120	62	21-120	NA		NA	
p-Terphenyl-d14	%	72	36-138	70	36-138	NA		NA	
Phenol-D5	%	28	13-120	24	13-120	NA		NA	
2-Fluorophenol	%	41	21-120	33	21-120	NA		NA	
2,4,6-Tribromophenol	%	80	62-133	76	62-133	NA		NA	

Date: 09/29/2005  
 Time: 15:26:39

ERM - 00176744 JEFFERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III  
 ERM - METHOD 8082 - POLYCHLORINATED BIPHENYLS - S

Rept: AN0326

Client ID		BZSA-CONCRO		BZSA-SOILRO					
Job No		A05-9638		A05-9638					
Lab ID		A5960103		A5960102					
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	18	ND	19	NA		NA	
Aroclor 1221	UG/KG	ND	18	ND	19	NA		NA	
Aroclor 1232	UG/KG	ND	18	ND	19	NA		NA	
Aroclor 1242	UG/KG	ND	18	ND	19	NA		NA	
Aroclor 1248	UG/KG	ND	18	ND	19	NA		NA	
Aroclor 1254	UG/KG	ND	18	ND	19	NA		NA	
Aroclor 1260	UG/KG	ND	18	ND	19	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	52	32-148	92	32-148	NA		NA	
Decachlorobiphenyl	%	42	36-153	108	36-153	NA		NA	

13/52

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 09/29/20  
 Time: 15:26:42

ERM - 0017674 PERSON ROAD  
 ERM - PROJECT 0016744 PERSON ROAD-GW-LEVEL III  
 ERM - SOIL - TCLP T METALS

pt: AN0326

Client ID		B2SA-CONCRO		B2SA-SOILRO					
Job No		A05-9638		A05-9638					
Lab ID		A5960103		A5960102					
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	ND	0.010	NA		NA	
Barium - Total	MG/L	0.26	0.0020	1.1	0.0020	NA		NA	
Cadmium - Total	MG/L	ND	0.0010	0.0014	0.0010	NA		NA	
Chromium - Total	MG/L	ND	0.0040	ND	0.0040	NA		NA	
Lead - Total	MG/L	ND	0.0050	0.55	0.0050	NA		NA	
Mercury - Total	MG/L	ND	0.00020	ND	0.00020	NA		NA	
Selenium - Total	MG/L	ND	0.015	ND	0.015	NA		NA	
Silver - Total	MG/L	ND	0.0030	ND	0.0030	NA		NA	

14/52

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 09/29/2005  
 Time: 15:26:45

ERM - 00176744 JEFFERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III  
 WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID		B2SA-CONCRO		B2SA-SOILRO					
Job No		A05-9638		A05-9638					
Lab ID		A5960103		A5960102					
Sample Date		09/01/2005		09/01/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Flashpoint	°F	>200	0	>200	0	NA		NA	
Leachable pH	S.U.	11.0	0.0100	8.18	0.0100	NA		NA	
SGT Total Petroleum Hydrocarbo	M6/KG	997	100	520	100	NA		NA	

15/52

NA = Not Appli    ND = Not Detected

STL Buffalo

**Chain of Custody Record**

**SEVERN  
TRENT**

**STL** *HP-A*

**Severn Trent Laboratories, Inc.**

STL-4124 (0901)

Client: **ERM** Project Manager: **Jon Fox** Date: **1 Sept. 05** Chain of Custody Number: **243536**

Address: **5788 Widewaters Pkwy** Telephone Number (Area Code)/Fax Number: **(315) 445-2554 / 445-2543+** Lab Number: **1000** Page: **1** of **1**

City: **Dewitt** State: **NY** Zip Code: **13214** Site Contact: **Nancy Reese** Lab Contact: **Brian Fischer**

Project Name and Location (State): **Jefferson Rd. NY.** Carrier/Waybill Number: **1000**

Contract/Purchase Order/Quote No.: **0016744**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives										Special Instructions/ Conditions of Receipt								
			Air	Aqueous	Sed.	Soil	Concretes	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc2	NaOH	VOCS	SVOCS	Metals		TCLP SVCS	TCLP VOCS	TCLP PCBs	Total TPH	Total PCBs	Total Metals		
BZSA - Grout sand	1 Sep 05	1350			X			X									X	X	X							see attached sheet (bottle request)
BZSA - Soil RO	1 Sep 05	1513				X		X										X	X	X	X	X	X			
BZSA - Core RO	1 Sep 05	1523					X	X									X	X	X	X	X	X	X			
BZSA - GW (090105)	1 Sep 05	1551	X				X	X	X								X						X	X		

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

QC Requirements (Specify): **STL**

1. Relinquished By: **NK Reese** Date: **2 Sep 05** Time: **1017**

1. Received By: **Tom AG** Date: **9/10/05** Time: **1017**

2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

52/52



RECEIVED

1/26

SEVERN  
TRENT

STL

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-9793

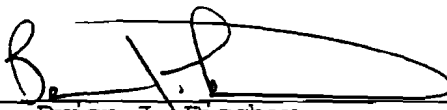
STL Project#: NY5A9504

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-GW-LEVEL III

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

  
\_\_\_\_\_  
Brian J. Fischer  
Project Manager

10/05/2005

## STL Buffalo Current Certifications

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5979301	B2SA-FLOWSAND	SOTHER	09/08/2005	11:20	09/08/2005	16:35

## METHODS SUMMARY

Job#: A05-9793STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROAD

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - 3 COMPOUNDS	SW8463 8260
METHOD 8270 - 22 COMPOUNDS	SW8463 8270
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-CONFORMANCE SUMMARY

Job#: A05-9793STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-9793

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A5I0002019-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 5.97%.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The LCS (Lot D046540) recovery for Antimony, and Iron fell outside of the quality control limits, however, the LCS value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## **DATA QUALIFIER PAGE**

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### **ORGANIC DATA QUALIFIERS**

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- † Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### **INORGANIC DATA QUALIFIERS**

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: B2SA-FLOWSAND

Date Received: 09/08/2005

Lab Sample ID: A5979301

Project No: NY5A9504

Date Collected: 09/08/2005

Client No: 447216

Time Collected: 11:20

Site No:

Parameter	Result	Flag	Detection		Method	Date/Time		Analyst
			Limit	Units		Analized		
ERM - SOIL-SW8463 8260 - 3 COMPOUNDS								
Acetone	ND		25	UG/KG	8260	09/14/2005	18:14	JLG
Benzene	ND		5	UG/KG	8260	09/14/2005	18:14	JLG
Methylene chloride	6		5	UG/KG	8260	09/14/2005	18:14	JLG
ERM - SOIL-SW8463 8270 - 22 COMPOUNDS								
2-Methylnaphthalene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Acenaphthene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Acenaphthylene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Anthracene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Benzo(a)anthracene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Benzo(a)pyrene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Benzo(b)fluoranthene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Benzo(ghi)perylene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Benzo(k)fluoranthene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Bis(2-ethylhexyl) phthalate	34	J	340	UG/KG	8270	09/13/2005	22:01	MD
Carbazole	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Chrysene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Di-n-butyl phthalate	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Di-n-octyl phthalate	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Dibenzo(a,h)anthracene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Dibenzofuran	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Fluoranthene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Fluorene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Indeno(1,2,3-cd)pyrene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Naphthalene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Phenanthrene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Pyrene	ND		340	UG/KG	8270	09/13/2005	22:01	MD
Metals Analysis								
Antimony - Total	ND		15.8	MG/KG	6010	09/12/2005	14:10	BKL
Arsenic - Total	ND		2.1	MG/KG	6010	09/12/2005	14:10	BKL
Beryllium - Total	0.21		0.21	MG/KG	6010	09/12/2005	14:10	BKL
Cadmium - Total	0.41		0.21	MG/KG	6010	09/12/2005	14:10	BKL
Chromium - Total	3.9		0.52	MG/KG	6010	09/12/2005	14:10	BKL
Copper - Total	9.9		1.0	MG/KG	6010	09/12/2005	14:10	BKL
Iron - Total	7150		10.5	MG/KG	6010	09/12/2005	14:10	BKL
Lead - Total	4.6		1.0	MG/KG	6010	09/12/2005	14:10	BKL
Mercury - Total	ND		0.022	MG/KG	7471	09/14/2005	14:17	AJY
Selenium - Total	ND		4.2	MG/KG	6010	09/12/2005	14:10	BKL
Silver - Total	ND		0.51	MG/KG	6010	09/13/2005	15:49	BKL
Zinc - Total	118		2.1	MG/KG	6010	09/12/2005	14:10	BKL

**Chain of Custody Record**

STL-4124 (0901)

Client: **ERM** Project Manager: **Jon Fox** Date: **8 Sep 05** Chain of Custody Number: **243236**  
 Address: **5788 Widewater Pkwy** Telephone Number (Area Code)/Fax Number: **(315) 445-2554 (315) 445-2543** Lab Number: \_\_\_\_\_ Page **1** of **1**

City: **Dewitt** State: **NY** Zip Code: **13214** Site Contact: **Nancy Reese** Lab Contact: **B. Fischer** Analysis (Attach list if more space is needed):  
 Project Name and Location (State): **Jefferson Rd., NY.** Carrier/Waybill Number: **Courier**

Contract/Purchase Order/Quote No.: **0016744** Matrix: \_\_\_\_\_ Containers & Preservatives: \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives										Special Instructions/ Conditions of Receipt								
			Air	Aqueous	Sed.	Soil	Sludg.	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	KS	VOCs	SVOCs	Metals									
<b>B2SA- Flowsand</b>	<b>8 Sep 05</b>	<b>1120</b>																								<b>* same parameters as sand collected on 1 Sep 04 - Sample ID B2SA-flowsand</b>

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other **standard** QC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: <b>NR Reese</b>	Date: <b>8 Sep 05</b>	Time: <b>11:30</b>	1. Received By: <b>[Signature]</b>	Date: <b>9-08-05</b>	Time: <b>16:35</b>
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: \_\_\_\_\_

26/26



RECEIVED

SEVERN  
TRENT

1/70

STL

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-9767, A05-9820

STL Project#: NY5A9504

SDG#: 9767

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

  
\_\_\_\_\_  
Brian J. Fischer  
Project Manager

10/14/2005

## STL Buffalo Current Certifications

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5982001	B2SA-GW(090805)	WATER	09/08/2005	15:40	09/08/2005	16:35

## METHODS SUMMARY

Job#: A05-9767,A05-9820STL Project#: NY5A9504SDG#: 9767Site Name: ERM - 00176744 JEFFERSON ROAD

PARAMETER	ANALYTICAL METHOD
Antimony - Total	MCAWW 200.7
Arsenic - Total	MCAWW 200.7
Beryllium - Total	MCAWW 200.7
Cadmium - Total	MCAWW 200.7
Chromium - Total	MCAWW 200.7
Copper - Total	MCAWW 200.7
Iron - Total	MCAWW 200.7
Lead - Total	MCAWW 200.7
Mercury - Total	MCAWW 245.1
Selenium - Total	MCAWW 200.7
Silver - Total	MCAWW 200.7
Zinc - Total	MCAWW 200.7
pH	MCAWW 150.1

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

## NON-CONFORMANCE SUMMARY

Job#: A05-9767,A05-9820STL Project#: NY5A9504SDG#: 9767Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-9767

Sample Cooler(s) were received at the following temperature(s); 2.0 °C

Volatile Organics was subcontracted to STL Edison. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Volatile Organics may be found within the comment summary of the subcontract report.

A05-9820

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
All samples were received in good condition.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## **DATA QUALIFIER PAGE**

***These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.***

### **ORGANIC DATA QUALIFIERS**

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### **INORGANIC DATA QUALIFIERS**

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 10/14/2005  
 Time: 15:33:16

ERM - 00176744 JEFFERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE  
 ERM - MCAWW - 200.7/245 12 METALS - W

Rept: AN0326

Client ID		B2SA-GW(090805)							
Job No		A05-9820 A5982001							
Sample Date		09/08/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Beryllium - Total	MG/L	ND	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Iron - Total	MG/L	1.1	0.050	NA		NA		NA	
Lead - Total	MG/L	0.023	0.0050	NA		NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Zinc - Total	MG/L	0.021	0.020	NA		NA		NA	

7/70

NA = Not Applic ND = Not Detected

STL Buffalo

Date: 10/14/2005  
Time: 15:33:19

ERM - 0017674 JEFFERSON ROAD  
ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE  
WET CHEMISTRY ANALYSIS

pt: AN0326

Client ID	Lab ID	B2SA-GW(090805)							
Job No		A05-9820	A5982001						
Sample Date		09/08/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
pH	S.U.	8.0	0	NA		NA		NA	

870

NA = Not Applicable ND = Not Detected

STL Buffalo



# Chronology and QC Summary Package

M5A9054/3

SEVERN  
TRENT

STL

Severn Trent Laboratories, Inc.

105-9820

Chain of  
Custody Record

STL-4124 (0901)

Client <b>ERM</b>	Project Manager <b>Jon Fox</b>	Date <b>8 Sep 05</b>	Chain of Custody Number <b>243203</b>
Address <b>5788 Widewaters Pkwy</b>	Telephone Number (Area Code)/Fax Number <b>(315) 445-2554 / 445-2543</b>	Lab Number	Page <b>1</b> of <b>1</b>

City <b>Dewitt</b>	State <b>NY</b>	Zip Code <b>13214</b>	Site Contact <b>Nancy Reese</b>	Lab Contact <b>B. Fischer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Jefferson Rd N.Y.</b>			Carrier/Waybill Number <b>Courier</b>		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No. <b>0016744</b>			Matrix		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives											Special Instructions/ Conditions of Receipt												
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	IC	antimony	arsenic, lead	barium		Cadmium	Chromium	Copper, iron	Mercury, silver	Selenium, zinc	acetone, benzene	n-amyl acetate	ethyl acetate	isopropyl acetate	methylene chloride	pH	
<b>BRSA-GW(090805)</b>	<b>8 Sep 05</b>	<b>1540</b>		<b>X</b>				<b>1</b>	<b>1</b>							<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
---	--	---

Turn Around Time Required <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____	QC Requirements (Specify) <b>USEPA Waste Characterization Method</b>
--	---

1. Relinquished By <b>N. Reese</b>	Date <b>8/26/05</b>	Time <b>16:30</b>	1. Received By <b>[Signature]</b>	Date <b>9-08-05</b>	Time <b>16:35</b>
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments **2.0L**

2070

# Appendix A

SEVERN  
TRENT

STL

**STL Edison**  
777 New Durham Road  
Edison, NJ 08817

Tel: 732 549 3900 Fax: 732 549 3679  
www.stl-inc.com

09/30/2005

STL Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228

Attention: Mr. Brian Fischer

Laboratory Results  
Job No. F224 - ERM

Dear Mr. Fischer:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 9, 2005.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
667850	B2SA-GW-090805	624-Special Compound List

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Janae McCloud, at (732) 549-3900.

Very Truly Yours,

*Michael J. Urban*

Michael J. Urban  
Laboratory Manager

<b>Analytical Results Summary .....</b>	<b>1</b>
<b>General Information .....</b>	<b>3</b>
Chain of Custody .....	3
Laboratory Chronicles .....	5
Methodology Review .....	7
Data Reporting Qualifiers .....	11
Non-Conformance Summary .....	13
<b>GC/ MS Forms and Data (Volatiles) .....</b>	<b>15</b>
Results Summary and Chromatograms .....	15
Tuning Results Summary .....	19
Method Blank Results Summary .....	24
Calibration Summary .....	33
Surrogate Compound Recovery Summary .....	40
Spike Recovery Summary .....	42
Internal Standard Area and RT Summary .....	45
<b>This is the Last Page of the Document .....</b>	<b>47</b>

## Analytical Results Summary

Client ID: B2SA-GW-090805  
Site: ERM

Lab Sample No: 667850  
Lab Job No: F224

Date Sampled: 09/08/05  
Date Received: 09/09/05  
Date Analyzed: 09/12/05  
GC Column: DB624  
Instrument ID: VOAMS7.i  
Lab File ID: v84086.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

## General Information

Chain of Custody



Date: 09/08/2005  
Time: 18:16:52

STL Buffalo  
Internal Chain of Custody

Page: AN0093

F224

Client: E R M Project: NY5A9504 Quote: NY05-264 SM #: 0600			PM: Brian J. Fischer Turn Around Required: 2B Purchase Order#: TBD		
Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
B2SA-GW(090805)	A5976701	WATER	8260	3-40mlV	09/08/2005 15:40

Relinquished by <u>STL Buffalo:</u>			Received By <u>STL - Edison:</u>		
Signature (s)	Date	Time	Signature (s)	Date	Time
(1) <i>J. G.</i>	09/08/2005	1820	(3) <i>[Signature]</i>	9/15/20	0910
(2) <i>[Signature]</i>	1/20		(4) <i>[Signature]</i>	1/20	

*Delivered By telex*

SMT. Edison

27170

Laboratory Chronicles

INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
STL Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: F224

Site: ERM

Client: STL Buffalo

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
667850	9/8/2005	9/9/2005			9/12/2005	Moroney, Christopher	9467

Methodology Review

Analytical Methodology Summary

## Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

## Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

## GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

## Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

## Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

<u>Element</u>	<u>Water Test Method Furnace</u>	<u>Solid Test Method Furnace</u>
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

**Cyanide:**

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

**Phenols:**

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

**Cleanup of Semivolatile Extracts:**

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

**Hazardous Waste Characteristics:**

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B  
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4  
respectively for hydrogen cyanide and  
hydrogen sulfide release
- Toxicity - TCLP Method 1311

**Miscellaneous Parameters:**

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers



## DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
  
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.
  
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
  
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
  
- \* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Non-Conformance Summary

**STL**

## Nonconformance Summary

STL Edison Job Number: F224

**Client:** STL Buffalo

**Date:** 9/30/2005

**Sample Receipt:**

Sample delivery conforms with requirements.

**Volatile Organic Analysis (GC/MS):**

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink that reads "Michael J. Urban".

Michael J. Urban  
Laboratory Manager

## GC/MS Forms and Data (Volatiles)

Results Summary and Chromatograms

Client ID: B2SA-GW-090805  
Site: ERM

Lab Sample No: 667850  
Lab Job No: F224

Date Sampled: 09/08/05  
Date Received: 09/09/05  
Date Analyzed: 09/12/05  
GC Column: DB624  
Instrument ID: VOAMS7.i  
Lab File ID: v84086.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

**STL Buffalo**10 Hazelwood Drive, Suite 106  
Amherst, NY 14228Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

## ANALYTICAL REPORT

Job#: A05-A370, A05-A371

STL Project#: NY5A9504

SDG#: A370

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

Brian J. Fischer  
Project Manager

10/25/2005

## STL Buffalo Current Certifications

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5A37001	B2SA-GW 092005	WATER	09/20/2005	15:15	09/20/2005	16:00



## METHODS SUMMARY

Job#: A05-A370,A05-A371STL Project#: NY5A9504SDG#: A370Site Name: ERM - 00176744 JEFFERSON ROAD

PARAMETER	ANALYTICAL METHOD
Antimony - Total	MCAWW 200.7
Arsenic - Total	MCAWW 200.7
Beryllium - Total	MCAWW 200.7
Cadmium - Total	MCAWW 200.7
Chromium - Total	MCAWW 200.7
Copper - Total	MCAWW 200.7
Iron - Total	MCAWW 200.7
Lead - Total	MCAWW 200.7
Mercury - Total	MCAWW 245.1
Selenium - Total	MCAWW 200.7
Silver - Total	MCAWW 200.7
Zinc - Total	MCAWW 200.7
pH	MCAWW 150.1

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

## NON-CONFORMANCE SUMMARY

Job#: A05-A370, A05-A371STL Project#: NY5A9504SDG#: A370Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-A370

Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C  
DID NOT RECEIVE VOLUME FOR PH ANALYSIS.

A05-A371

Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C

Volatile Organics were subcontracted to STL Edison. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Volatile Organics may be found within the comment summary of the subcontract report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## **DATA QUALIFIER PAGE**

***These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.***

### **ORGANIC DATA QUALIFIERS**

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### **INORGANIC DATA QUALIFIERS**

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 10/25/2005  
 Time: 11:04:43

ERM - 00176744 JEFFERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE  
 ERM - MCAWW - 200.7/245 12 METALS - W

Rept: AN0326

Client ID		B2SA-6W 092005							
Job No		A05-A370 A5A37001							
Sample Date		09/20/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Beryllium - Total	MG/L	ND	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Iron - Total	MG/L	0.34	0.050	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Zinc - Total	MG/L	0.026	0.020	NA		NA		NA	

7177

NA = Not Applic ND = Not Detected

STL Buffalo

Date: 10/25/2005  
Time: 11:04:45

ERM - 0017674 PERSON ROAD  
ERM - PROJECT 0016744 PERSON ROAD-WW DISCHARGE  
WET CHEMISTRY ANALYSIS

pt: AN0326

Client ID		Lab ID		B2SA-GW 092005					
Job No				A05-A370		A5A37001			
Sample Date				09/20/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
pH	S.U.	8.6	0	NA		NA		NA	

8/77

NA = Not Applicable ND = Not Detected

STL Buffalo

# Chronology and QC Summary Package

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B1447601	LCS	S.U.	pH	150.1	1.00	-	- 16:00	NA	NA	09/21 19:25	Yes	WATER

18/77

AHT = Analysis Holding Time Met  
THT = TCLP Holding Time Met  
NA = Not Applicable

STL Buffalo





# Appendix A



STL

**STL Edison**  
777 New Durham Road  
Edison, NJ 08817

Tel: 732 549 3900 Fax: 732 549 3679  
www.stl-inc.com

10/12/2005

STL Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228

Attention: Mr. Brian Fischer

Laboratory Results  
Job No. F981 - ERM-Jefferson Rd.

Dear Mr. Fischer:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 22, 2005.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
671526	B2SA-GW 092005	VOC-Special Compound List

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Janae McCloud, at (732) 549-3900.

Very Truly Yours,

*Michael J. Urban*

Michael J. Urban  
Laboratory Manager

<b>Analytical Results Summary .....</b>	<b>1</b>
<b>General Information .....</b>	<b>3</b>
Chain of Custody .....	3
Laboratory Chronicles .....	5
Methodology Review .....	7
Data Reporting Qualifiers .....	11
Non-Conformance Summary .....	13
<b>GC/ MS Forms and Data (Volatiles) .....</b>	<b>15</b>
Results Summary and Chromatograms .....	15
Tuning Results Summary .....	19
Method Blank Results Summary .....	28
Calibration Summary .....	37
Surrogate Compound Recovery Summary .....	48
Spike Recovery Summary .....	50
Internal Standard Area and RT Summary .....	53
<b>This is the Last Page of the Document .....</b>	<b>55</b>

## Analytical Results Summary

Client ID: B2SA-GW 092005  
Site: ERM-Jefferson Rd.

Lab Sample No: 671526  
Lab Job No: F981

Date Sampled: 09/20/05  
Date Received: 09/22/05  
Date Analyzed: 09/23/05  
GC Column: DB624  
Instrument ID: VOAMS1.i  
Lab File ID: a53146.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

**General Information**  
Chain of Custody

Date: 9/21/2005  
Time: 7:02:05

STL Buffalo  
Internal Chain of Custody

F981

Page: 1  
Rept: AN0093

F981

Client: E R M Project: NY5A9504 Quote: NY05-264 SM #: 0671				PM: Brian J. Fischer Turn Around Required: 2B Purchase Order#: TBD	
Client Sample ID	Lab ID	Matrix	Parameters Sample No	# and Type of Samp Containers	Sample Date/Time
B2SA-GW 092005	A5A37101	WATER	VOAS 671526	4-40mlV	09/20/2005 15:15

Relinquished by <u>STL Buffalo:</u>			Received By <u>STL - Edison:</u>		
Signature(s)	Date	Time	Signature(s)	Date	Time
(1) <i>Teresa J. [Signature]</i>	9/21/2005	1800	(3) <i>Fred Ep</i>	9/22/2005	
(2) <i>Fred Ep</i>	9/22/2005		(4) <i>[Signature]</i>	9/17/20	

STL Edison

Laboratory Chronicles



INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
STL Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: F981

Site: ERM-Jefferson Rd.

Client: STL Buffalo

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
671526	9/20/2005	9/22/2005			9/23/2005	Tolentino, Joy	9541

Methodology Review

Analytical Methodology Summary

## Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

## Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

## GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/ neutrals and 10 for acid extractables).

## Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

## Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

## Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

<u>Element</u>	<u>Water Test Method Furnace</u>	<u>Solid Test Method Furnace</u>
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

## Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

## Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

## Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

## Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B  
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4  
respectively for hydrogen cyanide and  
hydrogen sulfide release
- Toxicity - TCLP Method 1311

## Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

## DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
  
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.
  
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
  
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
  
- \* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Non-Conformance Summary



**STL**

## Nonconformance Summary

STL Edison Job Number: F981

**Client:** STL Buffalo

**Date:** 10/11/2005

**Sample Receipt:**

Sample delivery conforms with requirements.

**Volatile Organic Analysis (GC/MS):**

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink that reads "Michael J. Urban".

Michael J. Urban  
Laboratory Manager

**GC/MS Forms and Data (Volatiles)**

Results Summary and Chromatograms

Client ID: B2SA-GW 092005  
 Site: ERM-Jefferson Rd.

Lab Sample No: 671526  
 Lab Job No: F981

Date Sampled: 09/20/05  
 Date Received: 09/22/05  
 Date Analyzed: 09/23/05  
 GC Column: DB624  
 Instrument ID: VOAMS1.i  
 Lab File ID: a53146.d

Matrix: WATER  
 Level: LOW  
 Purge Volume: 5.0 ml  
 Dilution Factor: 1.0

**VOLATILE ORGANICS - GC/MS  
 METHOD 624**

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

Data File: /chem/VOAMS1.i/624/09-22-05/23sep05.b/a53146.d  
 Report Date: 27-Sep-2005 08:37

## STL Edison

## VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/624/09-22-05/23sep05.b/a53146.d  
 Lab Smp Id: 671526 Client Smp ID: B2SA-GW 092005  
 Inj Date : 23-SEP-2005 13:29  
 Operator : VOAMS 1 Inst ID: VOAMS1.i *1459/29/05*  
 Smp Info : 671526  
 Misc Info : F981;9541;;JT  
 Comment :  
 Method : /chem/VOAMS1.i/624/09-22-05/23sep05.b/624 05.m  
 Meth Date : 25-Sep-2005 15:42 diazc Quant Type: ISTD  
 Cal Date : 22-SEP-2005 13:18 Cal File: a53106.d  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: STLBuffalo.sub  
 Target Version: 3.50  
 Processing Host: hpd2

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
* 2 Bromochloromethane	128	7.601	7.603	(1.000)	324428	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.434	8.436	(0.930)	78860	31.2162	31
* 19 1,4-Difluorobenzene	114	9.073	9.075	(1.000)	1443783	30.0000	
\$ 37 Toluene-d8 (SUR)	98	11.034	11.022	(0.868)	1270301	30.0487	30
* 32 Chlorobenzene-d5	117	12.714	12.716	(1.000)	1111424	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	13.932	13.935	(1.096)	506084	27.5118	28

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-B399

STL Project#: NY5A9504

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD - ASP CAT. B

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

  
Brian J. Fischer  
Project Manager

11/03/2005

**STL Buffalo  
Current Certifications**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/68-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	EB7672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NYD44
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NYD44
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

## Sample Data Summary Package

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5B39901	D2SA-01 (10)	SOIL	10/11/2005	14:10	10/11/2005	15:45
A5B39902	D2SA-02 (10)	SOIL	10/11/2005	14:12	10/11/2005	15:45
A5B39903	D2SA-03 (10)	SOIL	10/11/2005	14:30	10/11/2005	15:45
A5B39904	D2SA-04 (10)	SOIL	10/11/2005	14:40	10/11/2005	15:45
A5B39904MS	D2SA-04 (10)	SOIL	10/11/2005	14:40	10/11/2005	15:45
A5B39904SD	D2SA-04 (10)	SOIL	10/11/2005	14:40	10/11/2005	15:45



## METHODS SUMMARY

Job#: A05-B399STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROAD

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - 3 COMPOUNDS	SW8463 8260
METHOD 8270 - 22 COMPOUNDS	SW8463 8270
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-CONFORMANCE SUMMARY

Job#: A05-B399STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-B399

Sample Cooler(s) were received at the following temperature(s); 12.0 °C

Samples were received at a temperature of >10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

Initial calibration standard curve A5I0002180-1 exhibited the %RSD of the compounds Acetone and Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 8.50%.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The recovery of sample D2SA-01 (10) Matrix Spike Duplicate exhibited results below the quality control limits for Iron. The recovery of sample D2SA-02 (10) Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Iron. The sample results are more than four times greater than the spikes added. The LCS is acceptable.

The recovery of sample D2SA-01 (10) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Antimony. The recovery of sample D2SA-01 (10) Matrix Spike exhibited results above the quality control limit for Lead. Sample matrix is suspect. The RPD between sample D2SA-01 (10) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Lead. However, the LCS was acceptable.

The recovery of sample D2SA-02 (10) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Antimony. The recovery of sample D2SA-04 (10) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Antimony. Sample matrix is suspect. However, the LCS was acceptable.

The recovery of sample D2SA-01 (10) Post Spike exhibited results below the quality control limits for Iron. However, the LCS was acceptable.

The relative percent difference between sample D2SA-04 (10) Matrix Spike and Matrix Spike Duplicate exceeded quality control criteria for Beryllium, Cadmium, Selenium, and Silver, though all individual recoveries are compliant. No action required.

The Serial Dilutions for samples D2SA-01 (10), D2SA-02 (10), and D2SA-04 (10) exceeded quality control limits for Iron. However, the LCS was acceptable, therefore, no corrective action was required.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE IDENTIFICATION  
AND  
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS						
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	TCLP HERB	WATER QUALITY
D2SA-01 (10)	A5B39901	SW8463	SW8463	-	-	SW8463	-	-
D2SA-02 (10)	A5B39902	SW8463	SW8463	-	-	SW8463	-	-
D2SA-03 (10)	A5B39903	SW8463	SW8463	-	-	SW8463	-	-
D2SA-04 (10)	A5B39904	SW8463	SW8463	-	-	SW8463	-	-

NYSDEC-1

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
D2SA-01 (10)	SOIL	10/11/2005	10/11/2005	-	10/14/2005
D2SA-02 (10)	SOIL	10/11/2005	10/11/2005	-	10/17/2005
D2SA-03 (10)	SOIL	10/11/2005	10/11/2005	-	10/14/2005
D2SA-04 (10)	SOIL	10/11/2005	10/11/2005	-	10/14/2005

NYSDEC-2

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
B/N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
D2SA-01 (10)	SOIL	10/11/2005	10/11/2005	10/12/2005	10/18/2005
D2SA-02 (10)	SOIL	10/11/2005	10/11/2005	10/12/2005	10/18/2005
D2SA-03 (10)	SOIL	10/11/2005	10/11/2005	10/12/2005	10/18/2005
D2SA-04 (10)	SOIL	10/11/2005	10/11/2005	10/12/2005	10/19/2005

NYSDEC-3

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY  
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
D2SA-01 (10)	SOIL	12 METAL	10/11/2005	10/13-10/14/2005	10/13-10/14/2005
D2SA-02 (10)	SOIL	12 METAL	10/11/2005	10/13-10/14/2005	10/13-10/14/2005
D2SA-03 (10)	SOIL	12 METAL	10/11/2005	10/13-10/14/2005	10/13-10/14/2005
D2SA-04 (10)	SOIL	12 METAL	10/11/2005	10/13-10/14/2005	10/13-10/14/2005

NYSDEC-5

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
D2SA-01 (10)	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
D2SA-02 (10)	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
D2SA-03 (10)	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
D2SA-04 (10)	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED

NYSDEC-6



NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
D2SA-01 (10)	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
D2SA-02 (10)	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
D2SA-03 (10)	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
D2SA-04 (10)	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED

NYSDEC-7



## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- ! Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-01 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: REONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B39901

Sample wt/vol: 5.18 (g/mL) G Lab File ID: F6566.RR

Level: (low/med) LOW Date Samp/Recv: 10/11/2005 10/11/2005

% Moisture: not dec. 16 Heated Purge: Y Date Analyzed: 10/14/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
67-64-1-----	Acetone	29	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

16/609

Client No.

D2SA-02 (10)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A5B39902

Sample wt/vol: 5.19 (g/mL) G

Lab File ID: F6608.RR

Level: (low/med) LOW

Date Samp/Recv: 10/11/2005 10/11/2005

% Moisture: not dec. 14 Heated Purge: Y

Date Analyzed: 10/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		28	U
71-43-2-----	Benzene		6	U
75-09-2-----	Methylene chloride		6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-03 (10)

Lab Name: SIL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B39903

Sample wt/vol: 5.13 (g/mL) G Lab File ID: F6570.RR

Level: (low/med) LOW Date Samp/Recv: 10/11/2005 10/11/2005

% Moisture: not dec. 17 Heated Purge: Y Date Analyzed: 10/14/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
67-64-1-----	Acetone	29	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-04 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5E39904

Sample wt/vol: 5.20 (g/mL) G Lab File ID: F6572.RR

Level: LOW (low/med) Date Samp/Recv: 10/11/2005 10/11/2005

% Moisture: not dec. 21 Heated Purge: Y Date Analyzed: 10/14/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
67-64-1-----	Acetone	30	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-01 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOIL Lab Sample ID: A5B39901Sample wt/vol: 30.42 (g/mL) G Lab File ID: W05969.RRLevel: (low/med) LOW Date Samp/Recv: 10/11/2005 10/11/2005% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2005Injection Volume: 1.00 (uL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo (a) anthracene	380		U
205-99-2	Benzo (b) fluoranthene	380		U
207-08-9	Benzo (k) fluoranthene	380		U
191-24-2	Benzo (ghi) perylene	380		U
50-32-8	Benzo (a) pyrene	380		U
117-81-7	Bis (2-ethylhexyl) phthalate	180		J
86-74-8	Carbazole	380		U
218-01-9	Chrysene	380		U
53-70-3	Dibenzo (a, h) anthracene	380		U
132-64-9	Dibenzofuran	380		U
84-74-2	Di-n-butyl phthalate	380		U
117-84-0	Di-n-octyl phthalate	380		U
206-44-0	Fluoranthene	380		U
86-73-7	Fluorene	380		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	380		U
91-57-6	2-Methylnaphthalene	380		U
91-20-3	Naphthalene	380		U
85-01-8	Phenanthrene	380		U
129-00-0	Pyrene	380		U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-02 (10)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5B39902Sample wt/vol: 30.23 (g/mL) GLab File ID: W05970.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: 13 decanted: (Y/N) NDate Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/18/2005Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_CONCENTRATION UNITS:  
(ug/L or ug/Kg)

CAS NO.	COMPOUND	UG/KG	Q
83-32-9-----	Acenaphthene	380	U
208-96-8-----	Acenaphthylene	380	U
120-12-7-----	Anthracene	380	U
56-55-3-----	Benzo (a) anthracene	380	U
205-99-2-----	Benzo (b) fluoranthene	380	U
207-08-9-----	Benzo (k) fluoranthene	380	U
191-24-2-----	Benzo (ghi) perylene	380	U
50-32-8-----	Benzo (a) pyrene	380	U
117-81-7-----	Bis (2-ethylhexyl) phthalate	86	J
86-74-8-----	Carbazole	380	U
218-01-9-----	Chrysene	380	U
53-70-3-----	Dibenzo (a, h) anthracene	380	U
132-64-9-----	Dibenzofuran	380	U
84-74-2-----	Di-n-butyl phthalate	380	U
117-84-0-----	Di-n-octyl phthalate	380	U
206-44-0-----	Fluoranthene	380	U
86-73-7-----	Fluorene	380	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	380	U
91-57-6-----	2-Methylnaphthalene	380	U
91-20-3-----	Naphthalene	380	U
85-01-8-----	Phenanthrene	380	U
129-00-0-----	Pyrene	380	U



METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-03 (10)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5B39903Sample wt/vol: 30.18 (g/mL) GLab File ID: W05971.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: 16 decanted: (Y/N) NDate Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/18/2005Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene		390	U
208-96-8-----	Acenaphthylene		390	U
120-12-7-----	Anthracene		390	U
56-55-3-----	Benzo (a) anthracene		390	U
205-99-2-----	Benzo (b) fluoranthene		390	U
207-08-9-----	Benzo (k) fluoranthene		390	U
191-24-2-----	Benzo (ghi) perylene		390	U
50-32-8-----	Benzo (a) pyrene		390	U
117-81-7-----	Bis (2-ethylhexyl) phthalate		390	U
86-74-8-----	Carbazole		390	U
218-01-9-----	Chrysene		390	U
53-70-3-----	Dibenzo (a, h) anthracene		390	U
132-64-9-----	Dibenzofuran		390	U
84-74-2-----	Di-n-butyl phthalate		390	U
117-84-0-----	Di-n-octyl phthalate		390	U
206-44-0-----	Fluoranthene		390	U
86-73-7-----	Fluorene		390	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene		390	U
91-57-6-----	2-Methylnaphthalene		390	U
91-20-3-----	Naphthalene		390	U
85-01-8-----	Phenanthrene		390	U
129-00-0-----	Pyrene		390	U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

D2SA-04 (10)

Lab Name: SIL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5B39904Sample wt/vol: 30.32 (g/mL) GLab File ID: W05972.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: 17 decanted: (Y/N) NDate Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/19/2005Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	390		U
208-96-8-----	Acenaphthylene	390		U
120-12-7-----	Anthracene	390		U
56-55-3-----	Benzo (a) anthracene	390		U
205-99-2-----	Benzo (b) fluoranthene	390		U
207-08-9-----	Benzo (k) fluoranthene	390		U
191-24-2-----	Benzo (ghi) perylene	390		U
50-32-8-----	Benzo (a) pyrene	390		U
117-81-7-----	Bis (2-ethylhexyl) phthalate	37		J
86-74-8-----	Carbazole	390		U
218-01-9-----	Chrysene	390		U
53-70-3-----	Dibenzo (a, h) anthracene	390		U
132-64-9-----	Dibenzofuran	390		U
84-74-2-----	Di-n-butyl phthalate	390		U
117-84-0-----	Di-n-octyl phthalate	390		U
206-44-0-----	Fluoranthene	390		U
86-73-7-----	Fluorene	390		U
193-39-5-----	Indeno (1,2,3-cd) pyrene	390		U
91-57-6-----	2-Methylnaphthalene	390		U
91-20-3-----	Naphthalene	390		U
85-01-8-----	Phenanthrene	390		U
129-00-0-----	Pyrene	390		U

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D2SA-01 (10)

Contract: NY05-264

Lab Code: STLBFO Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: A05-B399

Matrix (soil/water): SOIL Lab Sample ID: AD558291

Level (low/med): LOW Date Received: 10/11/2005

Solids: 86

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.8	U	N*	P
7440-38-2	Arsenic	2.4			P
7440-41-7	Beryllium	0.56		*	P
7440-43-9	Cadmium	0.26		*	P
7440-47-3	Chromium	14.0			P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	16400		E	P
7439-92-1	Lead	7.0		N*	P
7782-49-2	Selenium	4.8	U	*	P
7440-22-4	Silver	0.59	U	*	P
7439-97-6	Mercury	0.023	U		CV
7440-66-6	Zinc	44.8			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOILColor After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D2SA-02 (10)

Contract: NY05-264  
 Lab Code: STLBFL0 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: A05-E399  
 Matrix (soil/water): SOIL Lab Sample ID: AD558294  
 Level (low/med): LOW Date Received: 10/11/2005  
 % Solids: 87

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.5	U	N*	P
7440-38-2	Arsenic	2.3	U		P
7440-41-7	Beryllium	0.32		*	P
7440-43-9	Cadmium	0.23	U	*	P
7440-47-3	Chromium	7.8			P
7440-50-8	Copper	10.7			P
7439-89-6	Iron	11100		E	P
7439-92-1	Lead	7.5		N*	P
7782-49-2	Selenium	4.7	U	*	P
7440-22-4	Silver	0.58	U	*	P
7439-97-6	Mercury	0.023	U		CV
7440-66-6	Zinc	30.1			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL  
 Color After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STL BUFFALO

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-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D2SA-03 (10)

Contract: NY05-264  
 Lab Code: STLBFLO Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: A05-B399  
 Matrix (soil/water): SOIL Lab Sample ID: AD558297  
 Level (low/med): LOW Date Received: 10/11/2005  
 % Solids: 84

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.7	U	N*	P
7440-38-2	Arsenic	2.4	U		P
7440-41-7	Beryllium	0.56		*	P
7440-43-9	Cadmium	0.24	U	*	P
7440-47-3	Chromium	14.0			P
7440-50-8	Copper	14.5			P
7439-89-6	Iron	15400		E	P
7439-92-1	Lead	7.4		N*	P
7782-49-2	Selenium	4.7	U	*	P
7440-22-4	Silver	0.59	U	*	P
7439-97-6	Mercury	0.021	U		CV
7440-66-6	Zinc	46.4			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL  
 Color After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

D2SA-04 (10)

Contract: NY05-264Lab Code: STLBFL0

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-B399Matrix (soil/water): SOILLab Sample ID: AD558298Level (low/med): LOWDate Received: 10/11/2005% Solids: 83Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.3	U	N*	P
7440-38-2	Arsenic	2.6			P
7440-41-7	Beryllium	0.51		*	P
7440-43-9	Cadmium	0.27		*	P
7440-47-3	Chromium	13.2			P
7440-50-8	Copper	14.5			P
7439-89-6	Iron	14900		E	P
7439-92-1	Lead	6.8		N*	P
7782-49-2	Selenium	4.6	U	*	P
7440-22-4	Silver	0.58	U	*	P
7439-97-6	Mercury	0.024	U		CV
7440-66-6	Zinc	47.0			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METHOD 8260 - 3 COMPOUNDS  
SOIL SURROGATE RECOVERYLab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNV

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Level (low/med): LOW

	Client Sample ID	Lab Sample ID	BFB %REC #	DCE %REC #	TOL %REC #						TOT OUT
1	D2SA-01 (10)	A5B39901	103	113	124						0
2	D2SA-02 (10)	A5B39902	80	90	96						0
3	D2SA-03 (10)	A5B39903	100	111	122						0
4	D2SA-04 (10)	A5B39904	104	109	118						0
5	D2SA-04 (10)	A5B39904MS	115	89	116						0
6	D2SA-04 (10)	A5B39904SD	118	102	120						0
7	MSB06	A5B1608502	102	106	119						0
8	msb07	A5B1601801	85	88	92						0
9	VBLK06	A5B1608504	100	109	117						0
10	vblk07	A5B1601802	78	83	94						0

## QC LIMITS

BFB = p-Bromofluorobenzene  
DCE = 1,2-Dichloroethane-D4  
TOL = Toluene-D8

( 68-124)  
( 61-136)  
( 71-125)

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogates diluted out

Chain of Custody Record

STL-4124 (0901)

Client **ERM** Project Manager **Jon Fox** Date **11 Oct 05** Chain of Custody Number **243386**  
 Address **5788 Widewater Pkwy** Telephone Number (Area Code)/Fax Number **(315) 445-2334 / 445-2543** Lab Number  
 City **Dewitt** State **NY** Zip Code **13214** Site Contact **Nancy Reese** Lab Contact **Brian Fischer** Page **1** of **1**

Project Name and Location (State) **Jefferson Rd NY** Carrier/Waybill Number **STL Courier**  
 Contract/Purchase Order/Quote No. **0016744**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives											Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt <b>* see attached sheet</b>							
			Air	Aqueous	Sed.	Sol.	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	K2	3 VOCs *	22 SVOCs *	12 Metals *										
BZSA-01 (10)	11 Oct 05	1410				X											3	X	X	X						
BZSA-02 (10)		1412				X											3									
BZSA-03 (10)		1430				X											3									
BZSA-04 (10)		1440				X											3									
BZSA-MS/MSD (10)		1440				X											6	↓	↓	↓						collected from 04

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other **Standard 10-day**

QC Requirements (Specify) **ASP Level B Deliverables**

1. Relinquished By <b>N Reese</b>	Date <b>11 Oct 05</b>	Time <b>15:45</b>	1. Received By <b>[Signature]</b>	Date <b>10-11-05</b>	Time <b>15:45</b>
2. Relinquished By	Date	Time	2. Received By <b>[Signature]</b>	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

609/89



# Volatiles

**STL Buffalo**10 Hazelwood Drive, Suite 106  
Amherst, NY 14228Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

## ANALYTICAL REPORT

Job#: A05-B006, A05-B022

STL Project#: NY5A9504


SDG#: B006

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

  
Brian J. Fischer  
Project Manager

11/04/2005

## STL Buffalo Current Certifications

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5A92101	B2SA-GW(093005)	WATER	09/30/2005	14:45	10/01/2005	10:00

## METHODS SUMMARY

Job#: A05-B006,A05-B022STL Project#: NY5A9504SDG#: B006Site Name: ERM - 00176744 JEFFERSON ROAD

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Antimony - Total	MCAWW 200.7
Arsenic - Total	MCAWW 200.7
Beryllium - Total	MCAWW 200.7
Cadmium - Total	MCAWW 200.7
Chromium - Total	MCAWW 200.7
Copper - Total	MCAWW 200.7
Iron - Total	MCAWW 200.7
Lead - Total	MCAWW 200.7
Mercury - Total	MCAWW 245.1
Selenium - Total	MCAWW 200.7
Silver - Total	MCAWW 200.7
Zinc - Total	MCAWW 200.7

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

## NON-CONFORMANCE SUMMARY

Job#: A05-B006, A05-B022STL Project#: NY5A9504SDG#: B006Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-B006

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
ALL VOLUME WAS ORIGINALLY LOGGED IN UNDER A05-A921.

A05-B022

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
ALL VOLUME WAS ORIGINALLY LOGGED IN UNDER A05-A921.

Volatile Organics were subcontracted to STL Edison. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Volatile Organics may be found within the comment summary of the subcontract report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 11/04/2005  
 Time: 10:19:41

ERM - 00176744 JEFFERSON ROAD  
 ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE  
 ERM - MCAWW - 200.7/245 12 METALS - W

Rept: AN0326

Client ID		BZSA-GW(093005)							
Job No		A05-B006		A5A92101					
Sample Date		09/30/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Beryllium - Total	MG/L	ND	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	0.019	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Iron - Total	MG/L	1.6	0.050	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Zinc - Total	MG/L	ND	0.020	NA		NA		NA	

7/73

NA = Not Appli ND = Not Detected

STL Buffalo



**Chain of Custody Record**

**SEVERN TRENT STL**

**Severn Trent Laboratories, Inc.**

STL-4124 (0901)

Client: **ERM** Project Manager: **Jon Fox** Date: **30 Sep. 05** Chain of Custody Number: **243385**

Address: **5788 Widewaters Pkwy.** Telephone Number (Area Code)/Fax Number: **(315) 445-7554 / 445-2543** Lab Number: \_\_\_\_\_ Page: **1** of **1**

City: **Dewitt** State: **NY** Zip Code: **13214** Site Contact: **Nancy Rae** Lab Contact: **B. Fischer**

Project Name and Location (State): **Jefferson Road N.Y.** Carrier/Waybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No. <b>0016744</b>	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives										Analysis (Attach list if more space is needed)										Special Instructions/ Conditions of Receipt				
				Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2	NaOH	ICE	Antimony	ARSENIC LEAD	Barium	CADMIUM	CHROMIUM	COPPER, IRON	MERCURY	SILVER, SELENIUM	ZINC, ACETONE	Hexane, Ph	n-hexyl Acetyl C	ISO PROPYL ALCOHOL		METHYLENE CHLORIDE	ETHYL ACETATE		
	<b>B25A-6W(093005)</b>	<b>30 Sep 05</b>	<b>1445</b>		<b>X</b>			<b>1</b>		<b>1</b>	<b>3</b>						<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

QC Requirements (Specify): **USEPA Waste Characterization w/di/c/s**

1. Relinquished By: <b>R. [Signature]</b>	Date: <b>30 Sep. 05</b> Time: <b>1453</b>	1. Received By: <b>[Signature]</b>	Date: <b>[Signature]</b> Time: <b>1000</b>
2. Relinquished By: _____	Date: _____ Time: _____	2. Received By: _____	Date: _____ Time: _____
3. Relinquished By: _____	Date: _____ Time: _____	3. Received By: _____	Date: _____ Time: _____

Comments: \_\_\_\_\_

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

**2.0°C**

15173

# Appendix A

---

**SEVERN  
TRENT****STL****STL Edison**  
777 New Durham Road  
Edison, NJ 08817Tel: 732 549 3900 Fax: 732 549 3679  
www.stl-inc.com10/20/2005  
STL Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228

Attention: Mr. Brian Fischer

Laboratory Results  
Job No. G711 - ERM

Dear Mr. Fischer:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 5, 2005.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
675303	B2SA-GW_093005	624-Special Compound List

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Janae McCloud, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban  
Laboratory Manager

<b>Analytical Results Summary .....</b>	<b>1</b>
<b>General Information .....</b>	<b>3</b>
Chain of Custody .....	3
Laboratory Chronicles .....	5
Methodology Review .....	7
Data Reporting Qualifiers .....	11
Non-Conformance Summary .....	13
<b>GC/ MS Forms and Data (Volatiles) .....</b>	<b>15</b>
Results Summary and Chromatograms .....	15
Tuning Results Summary .....	19
Method Blank Results Summary .....	28
Calibration Summary .....	37
Surrogate Compound Recovery Summary .....	48
Spike Recovery Summary .....	50
Internal Standard Area and RT Summary .....	53
<b>This is the Last Page of the Document .....</b>	<b>55</b>

## Analytical Results Summary

Client ID: B2SA-GW\_093005  
Site: ERM

Lab Sample No: 675303  
Lab Job No: G711

Date Sampled: 09/30/05  
Date Received: 10/05/05  
Date Analyzed: 10/07/05  
GC Column: DB624  
Instrument ID: VOAMS1.i  
Lab File ID: a53680.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

**General Information**  
Chain of Custody

Date: '04/2005  
Time: 11:28

STL falo  
Chain of Custody

6711

Pad 1  
Rept: AN0093

Project: NY5A9504  
Quote: NY05-264  
SM #: 0709

PM: Brian J. Fischer  
Turn Around Required: 2B  
Purchase Order#: TBD

SAMPLE DATE 09/30/05 1445 PM

Relinquished by STL Buffalo:			Received By:		
Signature(s)	Date	Time	Signature(s)	Date	Time
(1) [Signature]	10/09/2005	1630	(3)	1/20	
(2)	1/20		(4)	1/20	

1 - VOLUME MARKED RSK FOR ACCTGTS  
2 - VOLUME MARKED VOA'S FOR VOA'S

ANY QUESTIONS CALL B FISCHER

(F224)

@ 716-671-2600

675303 KAW

G711

STL Edison

2273



Laboratory Chronicles

INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
STL Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: G711

Site: ERM

Client: STL Buffalo

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
675303	9/30/2005	10/5/2005			10/7/2005	Tolentino, Joy	9813

Methodology Review

Analytical Methodology Summary

## Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

## Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

## GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

## Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

## Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

## Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

<u>Element</u>	<u>Water Test Method Furnace</u>	<u>Solid Test Method Furnace</u>
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

## Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

## Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

## Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

## Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B  
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4  
respectively for hydrogen cyanide and  
hydrogen sulfide release
- Toxicity - TCLP Method 1311

## Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

## DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
  
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.
  
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
  
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
  
- \* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.



Non-Conformance Summary



## Nonconformance Summary

STL Edison Job Number: G711

**Client:** STL Buffalo

**Date:** 10/20/2005

**Sample Receipt:**

Sample delivery conforms with requirements.

**Volatile Organic Analysis (GC/MS):**

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink that reads "Michael J. Urban".

Michael J. Urban  
Laboratory Manager

**GC/MS Forms and Data (Volatiles)**  
Results Summary and Chromatograms

Client ID: B2SA-GW\_093005  
Site: ERM

Lab Sample No: 675303  
Lab Job No: G711

Date Sampled: 09/30/05  
Date Received: 10/05/05  
Date Analyzed: 10/07/05  
GC Column: DB624  
Instrument ID: VOAMS1.i  
Lab File ID: a53680.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

Data File: /chem/VOAMS1.i/624/10-06-05/07oct05.b/a53680.d  
 Report Date: 08-Oct-2005 13:04

## STL Edison

## VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/624/10-06-05/07oct05.b/a53680.d  
 Lab Smp Id: 675303 Client Smp ID: B2SA-GW\_093005  
 Inj Date : 07-OCT-2005 16:44  
 Operator : VOAMS 1 Inst ID: VOAMS1.i  
 Smp Info : 675303  
 Misc Info : G711;9813;;JT  
 Comment :  
 Method : /chem/VOAMS1.i/624/10-06-05/07oct05.b/624 05.m  
 Meth Date : 07-Oct-2005 10:52 tolentin Quant Type: ISTD  
 Cal Date : 06-OCT-2005 12:04 Cal File: a53622.d  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: STLBuffalo.sub  
 Target Version: 3.50

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	ω	Description
DF	1.00000		Dilution Factor
Vo	5.00000		Sample Volume

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
* 2 Bromochloromethane	128	7.540	7.512	(1.000)	164974	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	8.373	8.329	(0.929)	31781	31.2162	31
* 19 1,4-Difluorobenzene	114	9.012	8.983	(1.000)	620518	30.0000	
\$ 37 Toluene-d8 (SDR)	98	10.974	10.945	(0.867)	451430	29.2519	29
* 32 Chlorobenzene-d5	117	12.653	12.639	(1.000)	383370	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	13.857	13.843	(1.095)	262893	29.0419	29

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-B762

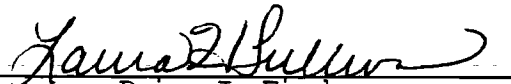
STL Project#: NY5A9504

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD - ASP CAT. B

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

  
\_\_\_\_\_  
Brian J. Fischer  
Asst. Project Manager

11/10/2005

**STL Buffalo  
Current Certifications**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	D3-054-D/BB-0686
<b>California</b>	NELAP SDWA, CWA, RCRA	D1169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP RCRA	EB7672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SWCS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-101B7
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NYD44
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NYD44
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	27B
<b>Washington</b>	CWA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	99B310390

## Sample Data Summary Package



## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5B76201	B2SA-05 (14)	SOIL	10/19/2005	10:00	10/19/2005	15:15
A5B76202	B2SA-FB (101905)	WATER	10/19/2005	09:40	10/19/2005	15:15
A5B76203	TRIP BLANK	WATER	10/19/2005		10/19/2005	15:15

## METHODS SUMMARY

Job#: A05-B762STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROAD

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - 3 COMPOUNDS	SW8463 8260
METHOD 8270 - 22 COMPOUNDS	SW8463 8270
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-CONFORMANCE SUMMARY

Job#: A05-B762STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-B762

Sample Cooler(s) were received at the following temperature(s); 4.0 °C

All samples were received in good condition.

GC/MS Volatile Data

The analyte Methylene chloride was detected in Method Blanks VBLK17 (A5B1667707) and VBLK18 (A5B1667708) at a level above the project established reporting limit. VBLK17 and VBLK18 were associated with the Trip Blank and the Field Blank. All aqueous, field generated, Quality Control samples were associated with soil samples. Therefore, all aqueous samples were analyzed as soils and evaluated using soil Quality Control Limits and reporting limits. When evaluated using soil reporting limits the concentration of Methylene Chloride is below the project established reporting limits in VBLK17 and VBLK18.

Water samples TRIP BLANK and B2SA-FB(101905) were preserved to a PH less than 2.

The analytes Acetone and Methylene Chloride were detected in the Field Blank, sample B2SA-FB(101905), at a level above the reporting limit. Acetone and Methylene Chloride were not detected in the associated soil sample, therefore there is no impact on data usability.

The analyte Methylene Chloride was detected in the TRIP BLANK at a level above the reporting limit. Methylene Chloride was not detected in the associated soil sample, therefore there is no impact on data usability.

Initial calibration standard curve A5I0002223-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 8.37%.

Initial calibration standard curve A5I0002225-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 6.26%.

#### GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

#### Metals Data

The LCS (Lot D047540) recovery for Mercury fell outside of the quality control limits, however, the LCS (A5B1688701) value was within the manufacturer's recommended acceptance limits. The LCS (Lot D049-540) recovery for Antimony and Iron fell outside the quality control limits, however, the LCS (A5B1618201) value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.



## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- ! Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

9/891

Client No.

B2SA-05 (14)

Lab Name: SIL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B76201

Sample wt/vol: 5.13 (g/mL) G Lab File ID: F6785.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: not dec. 14 Heated Purge: Y Date Analyzed: 10/26/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		28	U
71-43-2-----	Benzene		6	U
75-09-2-----	Methylene chloride		6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

10/891

Client No.

B2SA-FB(101905)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: A5E76202

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F6782.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: not dec. \_\_\_\_\_ Heated Purge: Y Date Analyzed: 10/26/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
67-64-1-----	Acetone	6	
71-43-2-----	Benzene	1	U
75-09-2-----	Methylene chloride	5	B

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

11/891

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: A5B76203

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F6781.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: not dec. \_\_\_\_\_ Heated Purge: Y Date Analyzed: 10/26/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
67-64-1-----	Acetone	5	U
71-43-2-----	Benzene	1	U
75-09-2-----	Methylene chloride	5	B



METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

12/891

Client No.

B2SA-05 (14)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B76201

Sample wt/vol: 30.09 (g/mL) G Lab File ID: U08179.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/26/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/27/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

83-32-9-----	Acenaphthene	380	U
208-96-8-----	Acenaphthylene	380	U
120-12-7-----	Anthracene	380	U
56-55-3-----	Benzo (a) anthracene	380	U
205-99-2-----	Benzo (b) fluoranthene	380	U
207-08-9-----	Benzo (k) fluoranthene	380	U
191-24-2-----	Benzo (ghi) perylene	380	U
50-32-8-----	Benzo (a) pyrene	380	U
117-81-7-----	Bis (2-ethylhexyl) phthalate	51	J
86-74-8-----	Carbazole	380	U
218-01-9-----	Chrysene	380	U
53-70-3-----	Dibenzo (a, h) anthracene	380	U
132-64-9-----	Dibenzofuran	380	U
84-74-2-----	Di-n-butyl phthalate	380	U
117-84-0-----	Di-n-octyl phthalate	380	U
206-44-0-----	Fluoranthene	380	U
86-73-7-----	Fluorene	380	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	380	U
91-57-6-----	2-Methylnaphthalene	380	U
91-20-3-----	Naphthalene	380	U
85-01-8-----	Phenanthrene	380	U
129-00-0-----	Pyrene	380	U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

13/891

Client No.

B2SA-FB(101905)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: A5B76202

Sample wt/vol: 990.00 (g/mL) ML Lab File ID: W06188.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 10/25/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/31/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
117-81-7	Bis (2-ethylhexyl) phthalate	10	U
86-74-8	Carbazole	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
91-57-6	2-Methylnaphthalene	10	U
91-20-3	Naphthalene	10	U
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U

STL BUFFALO

**E R M**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

B2SA-05 (14)

Contract: NY05-264Lab Code: STLBFLO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-B762Matrix (soil/water): SOILLab Sample ID: AD559698Level (low/med): LOWDate Received: 10/19/2005% Solids: 86Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	18.4	U		P
7440-38-2	Arsenic	3.0			P
7440-41-7	Beryllium	0.40			P
7440-43-9	Cadmium	0.25	U		P
7440-47-3	Chromium	10.6			P
7440-50-8	Copper	12.7			P
7439-89-6	Iron	12700			P
7439-92-1	Lead	6.8			P
7782-49-2	Selenium	4.9	U		P
7440-22-4	Silver	0.61	U		P
7439-97-6	Mercury	0.020			CV
7440-66-6	Zinc	40.6			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-FB(101905)

Contract: NY05-264Lab Code: STLBFLO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-B762Matrix (soil/water): WATERLab Sample ID: AD560716Level (low/med): LOWDate Received: 10/19/2005Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-47-3	Chromium	4.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	50.0	U		P
7439-92-1	Lead	5.0	U		P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESSClarity Before: CLEARTexture: NONEColor After: COLORLESSClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Chain Of Custody Documentation

Chain of Custody Record

SEVERN  
TRENT

STL

Sewern Trent Laboratories, Inc.

STL-4124 (0901)

Client <b>ERM</b>			Project Manager <b>Jon Fox</b>				Date <b>19 Oct 05</b>	Chain of Custody Number <b>212160</b>
Address <b>5788 Wickenburgers Pkwy</b>			Telephone Number (Area Code)/Fax Number <b>(315) 445-2534 / 445-2543</b>				Lab Number	Page <b>1</b> of <b>1</b>

City <b>Dewitt</b>	State <b>NY</b>	Zip Code <b>13214</b>	Site Contact <b>Nancy Reese</b>	Lab Contact <b>B. Fischer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Jefferson Rd N.Y.</b>			Carrier/Waybill Number <b>Courier</b>		

Contract/Purchase Order/Quote No. <b>0016744</b>	Matrix	Containers & Preservatives	Special Instructions/ Conditions of Receipt <b>* See Attached Sheet *</b>
--	--------	----------------------------	--

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives																																			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	1,2	3 VOCS *	22 SVOCs *	12 Metals *																										
BZSA-05 (14)	19 Oct 05	1000				X																																				
BZSA-FB (101905)	19 Oct 05	940		X									1	1																												
Trip Blank (101905)	19 Oct 05	940		X									1																													

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>Standard</b>	<b>ASP Level B Deliverables</b>

1. Relinquished By <b>[Signature]</b>	Date <b>10/19/05</b>	Time <b>1505</b>	1. Received By <b>[Signature]</b>	Date <b>10-19-05</b>	Time <b>15:15</b>
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments **4.02**

**STL Buffalo**

10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-C247

STL Project#: NY5A9504

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD - ASP CAT. B

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo



Brian J. Fischer  
Project Manager

11/21/2005

## STL Buffalo Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-DV68-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SWCS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NYD44
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NYD44
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390



## Sample Data Summary Package

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5C24701	B2SA-06	SOIL	10/27/2005	11:20	10/28/2005	14:35
A5C24702	B2SA-07	SOIL	10/27/2005	13:50	10/28/2005	14:35
A5C24703	B2SA-08	SOIL	10/27/2005	14:05	10/28/2005	14:35
A5C24705	B2SA-09	SOIL	10/28/2005	11:45	10/28/2005	14:35
A5C24704	B2SA-DUP	SOIL	10/27/2005		10/28/2005	14:35

## METHODS SUMMARY

Job#: A05-C247STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROAD

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
METHOD 8260 - 3 COMPOUNDS	SW8463 8260
METHOD 8270 - 22 COMPOUNDS	SW8463 8270
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-CONFORMANCE SUMMARY

Job#: A05-C247STL Project#: NY5A9504Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C247

Sample Cooler(s) were received at the following temperature(s); 3.0 °C  
All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A5I0002223-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 8.37%.

Initial calibration standard curve A5I0002225-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 6.26%.

GC/MS Semivolatile Data

The analyte Bis(2-ethylhexyl) phthalate was detected in the Method Blank A5B1677302 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Metals Data

The recovery of sample B2SA-06 serial dilution exceeded quality control limits for Iron. However, the LCS was acceptable.

The recovery of sample B2SA-06 Post Spike exhibited results below the quality control limits for Iron. However, the LCS was acceptable.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE IDENTIFICATION  
AND  
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS						
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	TCLP HERB	WATER QUALITY
B2SA-06	A5C24701	SW8463	SW8463	-	-	SW8463	-	-
B2SA-07	A5C24702	SW8463	SW8463	-	-	SW8463	-	-
B2SA-08	A5C24703	SW8463	SW8463	-	-	SW8463	-	-
B2SA-09	A5C24705	SW8463	SW8463	-	-	SW8463	-	-
B2SA-DUP	A5C24704	SW8463	SW8463	-	-	SW8463	-	-

NYSDEC-1

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
B2SA-06	SOIL	10/27/2005	10/28/2005	-	10/31/2005
B2SA-07	SOIL	10/27/2005	10/28/2005	-	10/31/2005
B2SA-08	SOIL	10/27/2005	10/28/2005	-	10/31/2005
B2SA-09	SOIL	10/28/2005	10/28/2005	-	10/31/2005
B2SA-DUP	SOIL	10/27/2005	10/28/2005	-	10/31/2005

NYSDEC-2

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
B2SA-06	SOIL	10/27/2005	10/28/2005	10/30/2005	11/01/2005
B2SA-07	SOIL	10/27/2005	10/28/2005	10/30/2005	11/01/2005
B2SA-08	SOIL	10/27/2005	10/28/2005	10/30/2005	11/01/2005
B2SA-09	SOIL	10/28/2005	10/28/2005	10/30/2005	11/03/2005
B2SA-DUP	SOIL	10/27/2005	10/28/2005	10/30/2005	11/01/2005

NYSDEC-3



NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY  
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
B2SA-06	SOIL	12 METAL	10/28/2005	11/02-11/04/2005	11/02-11/04/2005
B2SA-07	SOIL	12 METAL	10/28/2005	11/02-11/04/2005	11/02-11/04/2005
B2SA-08	SOIL	12 METAL	10/28/2005	11/02-11/04/2005	11/02-11/04/2005
B2SA-09	SOIL	12 METAL	10/28/2005	11/02-11/04/2005	11/02-11/04/2005
B2SA-DUP	SOIL	12 METAL	10/28/2005	11/02-11/04/2005	11/02-11/04/2005

NYSDEC-5

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
B2SA-06	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
B2SA-07	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
B2SA-08	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
B2SA-09	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED
B2SA-DUP	SOIL	SW8463	SONC	AS REQUIRED	AS REQUIRED

NYSDEC-6

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
B2SA-06	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
B2SA-07	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
B2SA-08	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
B2SA-09	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
B2SA-DUP	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED

NYSDEC-7



## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- ! Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

E2SA-06

Lab Name: SIL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24701

Sample wt/vol: 5.15 (g/mL) G Lab File ID: F6868.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: not dec. 26 Heated Purge: Y Date Analyzed: 10/31/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
67-64-1-----	Acetone	33	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-07

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: REONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOIL Lab Sample ID: A5C24702Sample wt/vol: 5.10 (g/mL) G Lab File ID: F6869.RRLevel: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005% Moisture: not dec. 26 Heated Purge: Y Date Analyzed: 10/31/2005GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		33	U
71-43-2-----	Benzene		7	U
75-09-2-----	Methylene chloride		7	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

E2SA-08

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5C24703Sample wt/vol: 5.12 (g/mL) GLab File ID: F6870.RRLevel: (low/med) LOWDate Samp/Recv: 10/27/2005 10/28/2005% Moisture: not dec. 26 Heated Purge: YDate Analyzed: 10/31/2005GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
67-64-1-----	Acetone	33	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-09

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24705

Sample wt/vol: 5.19 (g/mL) G Lab File ID: F6872.RR

Level: (low/med) LOW Date Samp/Recv: 10/28/2005 10/28/2005

% Moisture: not dec. 26 Heated Purge: Y Date Analyzed: 10/31/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		33	U
71-43-2-----	Benzene		6	U
75-09-2-----	Methylene chloride		6	U



METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-DUP

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24704

Sample wt/vol: 5.14 (g/mL) G Lab File ID: F6871.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: not dec. 30 Heated Purge: Y Date Analyzed: 10/31/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1	Acetone		35	U
71-43-2	Benzene		7	U
75-09-2	Methylene chloride		7	U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

20/668

Client No.

B2SA-06

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A5C24701

Sample wt/vol: 30.38 (g/mL) G

Lab File ID: U08273.RR

Level: (low/med) LOW

Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene		110	J
208-96-8-----	Acenaphthylene		370	U
120-12-7-----	Anthracene		160	J
56-55-3-----	Benzo (a) anthracene		590	
205-99-2-----	Benzo (b) fluoranthene		710	
207-08-9-----	Benzo (k) fluoranthene		210	J
191-24-2-----	Benzo (ghi) perylene		190	J
50-32-8-----	Benzo (a) pyrene		490	
117-81-7-----	Bis (2-ethylhexyl) phthalate		34	BJ
86-74-8-----	Carbazole		46	J
218-01-9-----	Chrysene		540	
53-70-3-----	Dibenzo (a, h) anthracene		68	J
132-64-9-----	Dibenzofuran		29	J
84-74-2-----	Di-n-butyl phthalate		370	U
117-84-0-----	Di-n-octyl phthalate		370	U
206-44-0-----	Fluoranthene		1200	
86-73-7-----	Fluorene		92	J
193-39-5-----	Indeno (1,2,3-cd) pyrene		190	J
91-57-6-----	2-Methylnaphthalene		370	U
91-20-3-----	Naphthalene		370	U
85-01-8-----	Phenanthrene		400	
129-00-0-----	Pyrene		930	

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

21/668

Client No.

B2SA-07

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24702

Sample wt/vol: 30.32 (g/mL) G Lab File ID: U08276.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	380		U
208-96-8-----	Acenaphthylene	380		U
120-12-7-----	Anthracene	380		U
56-55-3-----	Benzo (a) anthracene	36		J
205-99-2-----	Benzo (b) fluoranthene	99		J
207-08-9-----	Benzo (k) fluoranthene	27		J
191-24-2-----	Benzo (ghi) perylene	45		J
50-32-8-----	Benzo (a) pyrene	73		J
117-81-7-----	Bis (2-ethylhexyl) phthalate	28		BJ
86-74-8-----	Carbazole	380		U
218-01-9-----	Chrysene	43		J
53-70-3-----	Dibenzo (a, h) anthracene	380		U
132-64-9-----	Dibenzofuran	380		U
84-74-2-----	Di-n-butyl phthalate	380		U
117-84-0-----	Di-n-octyl phthalate	380		U
206-44-0-----	Fluoranthene	54		J
86-73-7-----	Fluorene	380		U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	39		J
91-57-6-----	2-Methylnaphthalene	380		U
91-20-3-----	Naphthalene	380		U
85-01-8-----	Phenanthrene	28		J
129-00-0-----	Pyrene	44		J

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

22/668

Client No.

E2SA-08

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24703

Sample wt/vol: 30.56 (g/mL) G Lab File ID: U08277.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

83-32-9-----	Acenaphthene	390	U
208-96-8-----	Acenaphthylene	390	U
120-12-7-----	Anthracene	390	U
56-55-3-----	Benzo (a) anthracene	25	J
205-99-2-----	Benzo (b) fluoranthene	30	J
207-08-9-----	Benzo (k) fluoranthene	390	U
191-24-2-----	Benzo (ghi) perylene	390	U
50-32-8-----	Benzo (a) pyrene	390	U
117-81-7-----	Bis (2-ethylhexyl) phthalate	65	BJ
86-74-8-----	Carbazole	390	U
218-01-9-----	Chrysene	20	J
53-70-3-----	Dibenzo (a, h) anthracene	390	U
132-64-9-----	Dibenzofuran	390	U
84-74-2-----	Di-n-butyl phthalate	390	U
117-84-0-----	Di-n-octyl phthalate	390	U
206-44-0-----	Fluoranthene	50	J
86-73-7-----	Fluorene	390	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	390	U
91-57-6-----	2-Methylnaphthalene	390	U
91-20-3-----	Naphthalene	390	U
85-01-8-----	Phenanthrene	56	J
129-00-0-----	Pyrene	35	J

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

23/668

Client No.

B2SA-09

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24705

Sample wt/vol: 30.36 (g/mL) G Lab File ID: U08337.RR

Level: (low/med) LOW Date Samp/Recv: 10/28/2005 10/28/2005

% Moisture: 19 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/03/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
120-12-7	Anthracene	400		U
56-55-3	Benzo (a) anthracene	400		U
205-99-2	Benzo (b) fluoranthene	400		U
207-08-9	Benzo (k) fluoranthene	400		U
191-24-2	Benzo (ghi) perylene	400		U
50-32-8	Benzo (a) pyrene	400		U
117-81-7	Bis (2-ethylhexyl) phthalate	32		BJ
86-74-8	Carbazole	400		U
218-01-9	Chrysene	400		U
53-70-3	Dibenzo (a, h) anthracene	400		U
132-64-9	Dibenzofuran	400		U
84-74-2	Di-n-butyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
206-44-0	Fluoranthene	400		U
86-73-7	Fluorene	400		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	400		U
91-57-6	2-Methylnaphthalene	400		U
91-20-3	Naphthalene	400		U
85-01-8	Phenanthrene	400		U
129-00-0	Pyrene	400		U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

24/668

Client No.

B2SA-DUP

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24704

Sample wt/vol: 30.18 (g/mL) G Lab File ID: U08278.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo (a) anthracene	390		U
205-99-2	Benzo (b) fluoranthene	390		U
207-08-9	Benzo (k) fluoranthene	390		U
191-24-2	Benzo (ghi) perylene	390		U
50-32-8	Benzo (a) pyrene	390		U
117-81-7	Bis (2-ethylhexyl) phthalate	40		BJ
86-74-8	Carbazole	390		U
218-01-9	Chrysene	390		U
53-70-3	Dibenzo (a, h) anthracene	390		U
132-64-9	Dibenzofuran	390		U
84-74-2	Di-n-butyl phthalate	390		U
117-84-0	Di-n-octyl phthalate	390		U
206-44-0	Fluoranthene	390		U
86-73-7	Fluorene	390		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	390		U
91-57-6	2-Methylnaphthalene	390		U
91-20-3	Naphthalene	390		U
85-01-8	Phenanthrene	390		U
129-00-0	Pyrene	390		U

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-06

Contract: NY05-264

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-C247

Matrix (soil/water): SOIL

Lab Sample ID: AD562506

Level (low/med): LOW

Date Received: 10/28/2005

% Solids: 87

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	15.1	U		P
7440-38-2	Arsenic	2.0	U		P
7440-41-7	Beryllium	0.33			P
7440-43-9	Cadmium	0.20	U		P
7440-47-3	Chromium	7.6			P
7440-50-8	Copper	13.2			P
7439-89-6	Iron	9630		E	P
7439-92-1	Lead	5.8			P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	0.50	U		P
7439-97-6	Mercury	0.019	U		CV
7440-66-6	Zinc	57.0			P

Color Before: BROWN

Clarity Before: CLOUDY

Texture: TOPSOIL

Color After: YELLOW

Clarity After: CLDY/FI

Artifacts:

Comments:

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-07

Contract: NY05-264

Lab Code: STLBFLO Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: A05-C247

Matrix (soil/water): SOIL Lab Sample ID: AD562507

Level (low/med): LOW Date Received: 10/28/2005

% Solids: 87

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	16.8	U		P
7440-38-2	Arsenic	3.3			P
7440-41-7	Beryllium	0.59			P
7440-43-9	Cadmium	0.25			P
7440-47-3	Chromium	15.3			P
7440-50-8	Copper	16.2			P
7439-89-6	Iron	17100		E	P
7439-92-1	Lead	8.3			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	0.56	U		P
7439-97-6	Mercury	0.019	U		CV
7440-66-6	Zinc	45.9			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_



STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-08

Contract: NY05-264

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-C247

Matrix (soil/water): SOIL

Lab Sample ID: AD562508

Level (low/med): LOW

Date Received: 10/28/2005

Solids: 83

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	16.2	U		P
7440-38-2	Arsenic	3.3			P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.25			P
7440-47-3	Chromium	15.9			P
7440-50-8	Copper	17.1			P
7439-89-6	Iron	17800		E	P
7439-92-1	Lead	6.9			P
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.54	U		P
7439-97-6	Mercury	0.019	U		CV
7440-66-6	Zinc	49.1			P

Color Before: BROWN

Clarity Before: CLOUDY

Texture: TOPSOIL

Color After: YELLOW

Clarity After: CLDY/FI

Artifacts:

Comments:

STL BUFFALO

## E R M

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-09

Contract: NY05-264

Lab Code: STLBFO Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: A05-C247

Matrix (soil/water): SOIL Lab Sample ID: AD562510

Level (low/med): LOW Date Received: 10/28/2005

% Solids: 81

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	18.4	U		P
7440-38-2	Arsenic	3.0			P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.25	U		P
7440-47-3	Chromium	16.2			P
7440-50-8	Copper	15.8			P
7439-89-6	Iron	17600		E	P
7439-92-1	Lead	7.5			P
7782-49-2	Selenium	4.9	U		P
7440-22-4	Silver	0.61	U		P
7439-97-6	Mercury	0.021	U		CV
7440-66-6	Zinc	48.4			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-DUP

Contract: NY05-264

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-C247Matrix (soil/water): SOILLab Sample ID: AD562509Level (low/med): LOWDate Received: 10/28/2005

Solids: 84

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	15.3	U		P
7440-38-2	Arsenic	3.2			P
7440-41-7	Beryllium	0.55			P
7440-43-9	Cadmium	0.22			P
7440-47-3	Chromium	13.9			P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	16000		E	P
7439-92-1	Lead	6.8			P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	0.51	U		P
7439-97-6	Mercury	0.020	U		CV
7440-66-6	Zinc	40.0			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Chain of  
Custody Record**

STL-4124 (0901)

Client <b>ERM</b>		Project Manager <b>Jon Fox</b>		Date <b>28 Oct 05</b>	Chain of Custody Number <b>212162</b>
Address <b>5788 Widewater Pkwy</b>		Telephone Number (Area Code)/Fax Number <b>(315) 445-2543 / 445-2543</b>		Lab Number	Page <b>1</b> of <b>1</b>

City <b>Dewitt</b>	State <b>NY</b>	Zip Code <b>13214</b>	Site Contact <b>Nancy Reese</b>	Lab Contact <b>B. Fischer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Jefferson Rd NY</b>		Carrier/Waybill Number <b>Courier</b>			
Contract/Purchase Order/Quote No. <b>0016744</b>					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					16	3 VOCs	22 SVOCs	12 Metals	Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Sol	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH					
B2SA-06 (102705)	27 Oct 05	1120				X	X						X	X	X	X	
B2SA-07 (102705)	↓	1350															
B2SA-08 (102705)	↓	1405															
B2SA-Dupe	27 Oct 05	---															
B2SA-09 (102805)	28 Oct 05	1145				X	X						X	X	X	X	

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months

Turn Around Time Required			QC Requirements (Specify)		
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input checked="" type="checkbox"/> Other: <b>Standard</b>

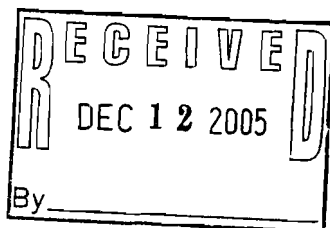
1. Relinquished By <b>N. Reese</b>		Date <b>27 Oct 05</b>	Time <b>1530</b>	1. Received By <b>B. Fischer</b>		Date <b>28 Oct 05</b>	Time <b>0737</b>
2. Relinquished By <b>B. Fischer</b>		Date <b>28 Oct 05</b>	Time <b>1435</b>	2. Received By <b>[Signature]</b>		Date <b>10-28-05</b>	Time <b>14:35</b>
3. Relinquished By		Date	Time	3. Received By		Date	Time

Comments

**3.0°C**

58/668

# Volatiles



1/75  
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ANALYTICAL REPORT

Job#: A05-C451, A05-C453

STL Project#: NY5A9504

SDG#: C451

Site Name: ERM - 00176744 JEFFERSON ROAD

Task: ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE

Mr. Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214

STL Buffalo

Brian J. Fischer  
Project Manager

A handwritten signature in black ink, appearing to read "B. J. Fischer", is written over a horizontal line. Below the signature, the name "Brian J. Fischer" and title "Project Manager" are printed.

12/07/2005

## STL Buffalo Current Certifications

As of 11/29/2005

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>AFCEE</b>	AFCEE	
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP CWA, RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>Tennessee</b>	SDWA	02970
<b>USACE</b>	USACE	
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA, RCRA	C254
<b>West Virginia</b>	CWA, RCRA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A5C45101	B2SA-GW(110205)	WATER	11/02/2005	10:44	11/02/2005	15:55



## METHODS SUMMARY

Job#: A05-C451, A05-C453STL Project#: NY5A9504SDG#: C451Site Name: ERM - 00176744 JEFFERSON ROAD

PARAMETER	ANALYTICAL METHOD
Antimony - Total	MCAWW 200.7
Arsenic - Total	MCAWW 200.7
Beryllium - Total	MCAWW 200.7
Cadmium - Total	MCAWW 200.7
Chromium - Total	MCAWW 200.7
Copper - Total	MCAWW 200.7
Iron - Total	MCAWW 200.7
Lead - Total	MCAWW 200.7
Mercury - Total	MCAWW 245.1
Selenium - Total	MCAWW 200.7
Silver - Total	MCAWW 200.7
Zinc - Total	MCAWW 200.7
pH	MCAWW 150.1

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

## NON-CONFORMANCE SUMMARY

Job#: A05-C451, A05-C453STL Project#: NY5A9504SDG#: C451Site Name: ERM - 00176744 JEFFERSON ROADGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

## A05-C451

Sample Cooler(s) were received at the following temperature(s); 17.0 °C  
Sample was received at a temperature of >10°C. However, the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

## A05-C453

Sample Cooler(s) were received at the following temperature(s); 17.0 °C  
Sample was received at a temperature of >10°C. However, the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

Volatile Organics was subcontracted STL Edison. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Volatile Organics may be found within the comment summary of the subcontract report.

Metals Data

The analyte Copper was detected in the ICV at a level above the quality control limit. All samples were non-detect for this analyte, therefore, no corrective action was necessary.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## DATA QUALIFIER PAGE

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 12/07/20  
Time: 10:19:39

ERM - 0017674 PERSON ROAD  
ERM - PROJECT 0016744 JERSON ROAD-WW DISCHARGE  
ERM - MCAWW - 200.7/245 12 METALS - W

at: AN0326

Client ID		BZSA-GW(110205)							
Job No		A05-C451 A5C45101							
Sample Date		11/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Beryllium - Total	MG/L	ND	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	0.020	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Iron - Total	MG/L	0.10	0.050	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Zinc - Total	MG/L	ND	0.020	NA		NA		NA	

8/75

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 12/07/2005  
Time: 10:19:41

ERM - 00176744 JEFFERSON ROAD  
ERM - PROJECT 0016744 JEFFERSON ROAD-WW DISCHARGE  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID		Lab ID		B2SA-GW(110205)					
Job No				A05-C451 A5C45101					
Sample Date				11/02/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
pH	S.U.	11.0	0	NA		NA		NA	

9/75

NA = Not Applicable ND = Not Detected

STL Buffalo

**Chain of  
Custody Record**

STL-4124 (0901)

Client **ERM** Project Manager **Jon Fox** Date **2 Nov 05** Chain of Custody Number **212164**  
 Address **5788 Widewakers Pkwy** Telephone Number (Area Code)/Fax Number **(315) 445-2554 / 445-2543** Lab Number \_\_\_\_\_ Page **1** of **1**

City **Dewitt** State **NY** Zip Code **13214** Site Contact **Nancy Reese** Lab Contact **B. Fischer** Analysis (Attach list if more space is needed) \_\_\_\_\_  
 Project Name and Location (State) **Jefferson Rd NY** Carrier/Waybill Number **Courier**

Contract/Purchase Order/Quote No. **0016744** Matrix Containers & Preservatives

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives										Special Instructions/ Conditions of Receipt								
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Ice	Other	Other	Other		Other	Other	Other					
<b>B2SA-GW(1102X05)</b>	<b>02 Nov 05</b>	<b>15:55</b>		X			X	X	X					X	X	X	X	X	X	X	X	X	X	X	
<b>Trip Blank</b>	<b>—</b>	<b>—</b>		X										X											<b>All VOC analysis</b>
																									<b>Some volatiles</b>
																									<b>to be sent to</b>
																									<b>STL Edison</b>

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other **ASAP** QC Requirements (Specify) **USEPA Waste Characterization Methods**

1. Relinquished By <b>N. Reese</b>	Date <b>2 Nov 05</b>	Time <b>15:55</b>	1. Received By <b>[Signature]</b>	Date <b>11-02-05</b>	Time <b>10:05</b>
2. Relinquished By <b>[Signature]</b>	Date <b>11/02/05</b>	Time <b>17:45</b>	2. Received By <b>[Signature]</b>	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

2075

# Appendix A





11/29/2005  
 STL Buffalo  
 10 Hazelwood Drive  
 Amherst, NY 14228

**STL Edison**  
 777 New Durham Road  
 Edison, NJ 08817

Tel 732 549 3900 Fax 732 549 3679  
 www.stl-inc.com

Attention: Mr. Brian Fischer

Laboratory Results  
 Job No. I288 - ERM-Jefferson Rd.

Dear Mr. Fischer:

Enclosed are the results you requested for the following sample(s) received at our laboratory on November 3, 2005.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
683546	B25A-GW110205	624-Special Compound List
683547	Trip-Blank	624-Special Compound List

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Janae McCloud, at (732) 549-3900.

Very Truly Yours,

*Michael J. Urban*

Michael J. Urban  
 Laboratory Manager

<b>Analytical Results Summary</b> .....	<b>1</b>
<b>General Information</b> .....	<b>4</b>
Chain of Custody .....	4
Laboratory Chronicles .....	6
Methodology Review .....	8
Data Reporting Qualifiers .....	12
Non-Conformance Summary .....	14
<b>GC/ MS Forms and Data (Volatiles)</b> .....	<b>16</b>
Results Summary and Chromatograms .....	16
Tuning Results Summary .....	24
Method Blank Results Summary .....	29
Calibration Summary .....	38
Surrogate Compound Recovery Summary .....	45
Spike Recovery Summary .....	47
Internal Standard Area and RT Summary .....	50
<b>This is the Last Page of the Document</b> .....	<b>52</b>

## Analytical Results Summary

Client ID: B25A-GW110205  
Site: ERM-Jefferson Rd.

Lab Sample No: 683546  
Lab Job No: I288

Date Sampled: 11/02/05  
Date Received: 11/03/05  
Date Analyzed: 11/07/05  
GC Column: DB624  
Instrument ID: VOAMS11.i  
Lab File ID: n15490.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	27	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

Client ID: Trip-Blank  
Site: ERM-Jefferson Rd.

Lab Sample No: 683547  
Lab Job No: I288

Date Sampled: 11/02/05  
Date Received: 11/03/05  
Date Analyzed: 11/07/05  
GC Column: DB624  
Instrument ID: VOAMS11.i  
Lab File ID: n15489.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	ND	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

## **General Information**

Chain of Custody

# Chain of Custody Record

# STL Buffalo

924083

**SEVERN**  
**TRENT** **STL**  
Severn Trent Laboratories, Inc.

STL 124 (09/01)  
 Client: EKM  
 Project Manager: Jon Fox  
 Date: 2 Nov 05  
 Chain of Custody Number: 212164  
 Address: 5788 Wickwakers Pkwy  
 Telephone Number (Area Code)/Fax Number: (315) 445-2554 / 445-2543  
 Lab Number: 1 of 1

City: Delvitt State: NY Zip Code: 13214  
 Site Contact: Nancy Reme Lab Contact: B. Fischer  
 Project Name and Location (State): Jefferson Rd NY  
 Carrier/Waybill Number: CAFEPT

Contract/Purchase Order/Quote No: 0016744  
 Matrix: \_\_\_\_\_ Containers & Preservatives: \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	AZ	Aqueous	Solid	Soil	Analysis (Attach list if more space is needed)												Special Instructions/ Conditions of Receipt						
							Urea	MSO4	HMOS	HC	NaOH	ZnAc	NaOH	ice	antimony	arsenic lead	beryllium	chromium		Copper Iron	Mercury	Silver Selenium	Zinc Acetate	barium OH	n-amyl acetate
<u>B25H-GW (10x05)</u>	<u>25 Nov 05</u>	<u>(3)</u>	<u>HC</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>All VOC analysis Some containers to be sent to STL Edison</u>
<u>Trip Blank</u>	<u>25 Nov 05</u>	<u>(1)</u>		<u>X</u>																					

Possible Hazard Identification:  Non Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other ASAP

QC Requirements (Specify): DSE-PA Waste Characterization Methods

1 Relinquished By: <u>Nancy Reme</u>	Date: <u>2 Nov 05</u> Time: <u>15:55</u>	1 Received By: <u>[Signature]</u>	Date: <u>11/03/05</u> Time: <u>11:15</u>
2 Relinquished By: <u>[Signature]</u>	Date: <u>11/03/05</u> Time: <u>11:45</u>	2 Received By: <u>fed Ex</u>	Date: <u>11/03/05</u> Time: <u>11:15</u>
3 Relinquished By: <u>fed Ex</u>	Date: <u>11/03/05</u> Time: <u>11:15</u>	3 Received By: <u>[Signature]</u>	Date: <u>11/03/05</u> Time: <u>11:15</u>

Comments: 4.4e

Laboratory Chronicles



INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
STL Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: I288

Site: ERM-Jefferson Rd.

Client: STL Buffalo

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
683546	11/2/2005	11/3/2005			11/7/2005	Deng, Lily	0159
683547	11/2/2005	11/3/2005			11/7/2005	Deng, Lily	0159

Methodology Review

Analytical Methodology Summary

## Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

## Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

## GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

## Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

## Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

## Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

<u>Element</u>	<u>Water Test Method Furnace</u>	<u>Solid Test Method Furnace</u>
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

## Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

## Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

## Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

## Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B  
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4  
respectively for hydrogen cyanide and  
hydrogen sulfide release
- Toxicity - TCLP Method 1311

## Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

## DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- \* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Non-Conformance Summary





## Nonconformance Summary

STL Edison Job Number: I288

**Client:** STL Buffalo

**Date:** 11/21/2005

**Sample Receipt:**

Sample delivery conforms with requirements.

**Volatile Organic Analysis (GC/MS):**

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink that reads "Michael J. Urban".

Michael J. Urban  
Laboratory Manager

## **GC/MS Forms and Data (Volatiles)**

Results Summary and Chromatograms

Client ID: B25A-GW110205  
Site: ERM-Jefferson Rd.

Lab Sample No: 683546  
Lab Job No: I288

Date Sampled: 11/02/05  
Date Received: 11/03/05  
Date Analyzed: 11/07/05  
GC Column: DB624  
Instrument ID: VOAMS11.i  
Lab File ID: n15490.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS  
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Methylene Chloride	ND	0.5
Acetone	27	1.3
Benzene	ND	0.3
Ethyl Acetate	ND	0.7
Isopropyl Acetate	ND	0.4
Amyl Acetate	ND	0.3

Data File: /chem/VOAMS11.i/624/11-07-05/07nov05.b/n15490.d  
 Report Date: 08-Nov-2005 08:15

## STL Edison

## VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS11.i/624/11-07-05/07nov05.b/n15490.d  
 Lab Smp Id: 683546 Client Smp ID: B25A-GW110205  
 Inj Date : 07-NOV-2005 19:38  
 Operator : VOA11 Inst ID: VOAMS11.i  
 Smp Info : 683546  
 Misc Info : I288;0159;;LD  
 Comment :  
 Method : /chem/VOAMS11.i/624/11-07-05/07nov05.b/624\_05.m  
 Meth Date : 07-Nov-2005 16:23 lily Quant Type: ISTD  
 Cal Date : 07-NOV-2005 13:40 Cal File: n15479.d  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: STLBuffalo.sub  
 Target Version: 3.50

Concentration Formula: Amt \* DF \* 5/Vo \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
7 Acetone	43	1.259	1.265	(0.540)	104501	26.9597	27
* 2 Bromochloromethane	128	2.329	2.329	(1.000)	214082	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	2.749	2.749	(0.879)	64123	30.9531	31
* 19 1,4-Difluorobenzene	114	3.126	3.126	(1.000)	1297851	30.0000	
\$ 37 Toluene-d8 (SUR)	98	4.562	4.562	(0.720)	1332091	30.1547	30
* 32 Chlorobenzene-d5	117	6.338	6.338	(1.000)	1016860	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	8.090	8.091	(1.276)	363468	29.1722	29

*Appendix G*

*NYSDEC and MCDES Approval  
Correspondence*



"Greg MacLean"  
<gbmaclea@gw.dec.state.ny.us>

09/15/2005 08:24 AM

To: <Jon.Fox@erm.com>  
cc: <jayd@cpward.com>, <Ed.Hinchey@erm.com>, <NancyRae.Reese@erm.com>, "Bart Putzig" <bputzig@gw.dec.state.ny.us>  
Subject: Re: Grout Characterization Data - B2SA, 755 Jefferson Rd. Facility, Henrietta, NY NYSDEC VCP# V00126

Jon,

I agree with your assessment that the low-level beryllium detection (0.21 mg/Kg) in the grout sample does not represent a significant concern. All other compounds were detected below TAGM RSCOs or were not detected. Therefore, it is acceptable to proceed with the use of the grout material at the site.

Thanks,  
Greg

>>> <Jon.Fox@erm.com> 09/14/05 4:51 PM >>>  
Hello Greg

I would like to include the following supplemental discussion of the beryllium detection in the attached data. The Site-specific Recommended Soil Cleanup Objective (RSCO) for beryllium is 0.16 mg/Kg or ND, which is the unrestricted use RSCO from NYSDEC's TAGM-4046. The detected concentration of beryllium in the grout characterization sample is 0.21 mg/Kg, which is equal to the practical quantitation limit for this analysis. As discussed in Section 3.3 of the B2SA RDI Report, ERM has typically received laboratory analytical reports from NYSDOH-approved environmental laboratories which include low-level detections of beryllium at or just slightly above the practical quantitation limit. The reported practical quantitation limits for beryllium for soil samples included in the B2SA RDI Report range from 0.52 to 1.1 mg/Kg, which is essentially the same range as the minimum and maximum concentrations in B2SA soil samples (0.55 to 1.1 mg/Kg). The geometric mean of all beryllium detections in B2SA soil (0.698 mg/Kg) is similar to the geometric mean of the practical quantitation limits for those analyses (0.588 mg/Kg). These data indicate that detected concentrations of beryllium in B2SA soil are not significantly different from practical quantitation limits. The attached data demonstrate the same relationship for the grout matrix. Therefore, it is ERM's technical opinion that the reported concentration of beryllium in the grout characterization sample is not a concern and that use of this grout in B2SA remedial construction is consistent with unrestricted use of the B2SA.

Please advise me as soon as possible if use of this grout is acceptable to the Department and is consistent with unrestricted use of the B2SA. Thanks Greg for your for your assistance and please contact me if you have any questions or comments.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)

315-445-2543 (facsimile)  
jon.fox@erm.com

Jon Fox  
09/14/2005 02:56 PM

To: gbmaclea@gw.dec.state.ny.us  
cc: bxputzig@gw.dec.state.ny.us, Jeffrey.Hohman@ucb-group.com,  
loren.keim@ucb-group.com, Dave.Panipinto@ucb-group.com,  
lford@nixonpeabody.com, Ed Hinchey/ERMNE/ERM@ERM, NancyRae  
Reese/ERMNE/ERM@ERM, jayd@cpward.com, hartman@hartmanengineering.com  
Subject: Grout Characterization Data - B2SA, 755 Jefferson  
Rd. Facility, Henrietta, NY  
NYSDEC VCP# V00126-8

Hello Greg

Per our telephone conversation yesterday, please find attached laboratory analytical data for a characterization sample of grout to be used between timber lagging and the excavation walls in the B2SA at the above-referenced Site. ERM requests NYSDEC approval of use of this grout based on the attached laboratory analytical data. Please advise me as soon as possible if use of this grout is acceptable to NYSDEC - we will likely be in a position to initiate use as early as tomorrow.

Thanks Greg and please contact me if you have any questions or comments.

Regards,  
Jon

P.S. We have not received laboratory analytical results for the characterization sample of the no fly-ash flowable fill. I will forward those data to you once they are received.

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
jon.fox@erm.com

-----  
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Please visit ERM's web site: <http://www.erm.com>

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Please visit ERM's web site: <http://www.erm.com>





SKeenan@monroecoun  
ty.gov

09/15/2005 01:13 PM

To: Jon.Fox@erm.com  
cc:  
Subject: Re: Analytical Data B2SA Wastewater - 755 Jefferson Road, Henrietta,  
NY NYSDEC VCP# V00126-8

Hello John,

This will confirm receipt of the first analytical testing results and will serve as approval to discharge the first tank of water at UCB Celltech. Based on the data provided the proposed waters for discharge meet the limits as set by this office. Future discharges will require approval in the same manner as this discharge.

As discussed, these discharges will be covered by the current permit issued to UCB Celltech Manufacturing.

Regards,

Sean K.

-----  
Sean P. Keenan  
Monroe County Department of Environmental Services  
Office of Industrial Waste  
444 E. Henrietta Road  
Rochester, NY 14620-4630  
Phone: (585) 760-7610 ext. 7143  
Cell Phone: 509-2814  
E-mail: skeenan@monroecounty.gov



SKeenan@monroecoun  
ty.gov

09/27/2005 11:35 AM

To: Jon.Fox@erm.com

cc:

Subject: Re: Analytical Data B2SA Wastewater Batch 02 - 755 Jefferson Road,  
Henrietta, NY NYSDEC VCP# V00126-8

Based on the analytical data provided, this office is approving the discharge of approximately 8500 gallons of water generated during soil excavation and de-watering operations at the UCB Celltech facility. Future discharges will require the same process.

Sean Keenan

-----  
Sean P. Keenan  
Monroe County Department of Environmental Services  
Office of Industrial Waste  
444 E. Henrietta Road  
Rochester, NY 14620-4630  
Phone: (585) 760-7610 ext. 7143  
Cell Phone: 509-2814  
E-mail: skeenan@monroecounty.gov



"Greg MacLean"  
<gbmaclea@gw.dec.state.ny.us>

10/06/2005 08:17 AM

To: <Jon.Fox@erm.com>  
cc: <jayd@cpward.com>, <Dave.Myers@erm.com>, <Ed.Hinchey@erm.com>, <Kristopher.Perritt@erm.com>, <NancyRae.Reese@erm.com>, "Bart Putzig"  
Subject: Re: Bituminous Material Waste - 755 Jefferson Road Facility, Henrietta, NY NYSDEC VCP# V00126-8

Jon,

Based on the analytical data provided and description of the material, it is acceptable for the solidified bituminous material waste to be disposed off-site at a permitted C&D landfill or MSW landfill that accepts C&D. Please provide disposal documentation in the subsequent monthly progress report. Feel free to contact me if there are any further questions on the matter.

Thanks,  
Greg

Gregory B. MacLean, P.E.           gbmaclea@gw.dec.state.ny.us  
Environmental Engineer 2  
NYSDEC, Division of Environmental Remediation - Region 8  
6274 East Avon-Lima Road, Avon, NY 14414  
phone: (585) 226-5356 fax: (585) 226-8696  
Visit the DEC web site at:       <http://www.dec.state.ny.us>

>>> <Jon.Fox@erm.com> 09/06/05 1:26 PM >>>  
Hello Greg

Per our telephone discussion earlier today, ERM requests approval to place solidified bituminous material waste generated during the B2SA remediation at the above-referenced Site into a roll-off container with other construction-related debris and waste (i.e., concrete, steel from the sump, etc.). The bituminous material, originally applied beneath Building #2 as waterproofing, was generally present beneath the concrete floor slab and spalled off when the concrete was broken into smaller pieces to facilitate removal from Room 24. Please advise me if this is acceptable to NYSDEC.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
[jon.fox@erm.com](mailto:jon.fox@erm.com)

-----  
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Please visit ERM's web site: <http://www.erm.com>



"Greg MacLean"  
<gbmaclea@gw.dec.state.ny.us>

10/06/2005 01:59 PM

To: <Jon.Fox@erm.com>  
cc: <Ed.Hinchey@erm.com>, <Kristopher.Perritt@erm.com>, <NancyRae.Reese@erm.com>, "Bart Putzig" <bputzig@gw.dec.state.ny.us>, <lford@nixonpeabody.com>  
Subject: Re: B2SA Waste Characterization - 755 Jefferson Road Facility, Henrietta, NY NYSDEC VCP# V00126-8

Jon,

Based on my review of the analytical data provided, the non-hazardous solid waste determination as described below appears to be appropriate. Assuming the material is to be disposed off-site, it needs to be taken to a permitted solid waste landfill. Please provide disposal documentation in the subsequent monthly progress report.

Thanks,  
Greg

Gregory B. MacLean, P.E.           gbmaclea@gw.dec.state.ny.us  
Environmental Engineer 2  
NYSDEC, Division of Environmental Remediation - Region 8  
6274 East Avon-Lima Road, Avon, NY 14414  
phone: (585) 226-5356 fax: (585) 226-8696  
Visit the DEC web site at:       <http://www.dec.state.ny.us>

>>> <Jon.Fox@erm.com> 10/06/05 11:57 AM >>>  
Hello Greg

Please find attached laboratory analytical results for the following types of waste generated during the B2SA remediation.

affected soil excavated from the vicinity of the Room 24 sump (the sample designated "B2SA-SOILRO"); and  
concrete/debris from removal of the floor to allow access to affected soil (the sample designated "B2SA-CONCRO").

ERM offers the following technical opinion regarding characterization of these wastes. The sump in the B2SA received water for several years from floor drains and sinks in the facility and from building foundation drains. Based on review of the attached data and previous soil samples collected in the B2SA, the concrete/debris and surrounding soil being removed from the B2SA area are locally affected by inorganic elements listed in the B2SA Remedial Design Investigation Report and from SVOCs derived from bituminous material used during construction as waterproofing material. It is ERM's technical opinion that the concrete/debris and soil removed from the B2SA area do not meet the definitions of Part 261 - Subpart D (federal) or 6 NYCRR Part 371.4 (state) F-, K-, P-, or U-listed hazardous wastes. In addition, the wastes do not meet the definition of:

Ignitable waste (the samples both exhibit a flash point >200 degrees F);  
Corrosive waste (the samples both have a pH between 2 and 12.5);  
Reactive waste (the waste is not water reactive, spontaneously reactive, etc.); or  
Toxic waste (none of the analyzed constituents exceed the Maximum Concentration of Contaminants for the Toxicity Characteristic),

As such, these wastes also do not meet the definition of a D-listed waste. Our opinion is based on the definitions for Ignitable, Corrosive, Reactive, and Toxic wastes presented in 40 CFR Part 261 (Subpart C) and 6 NYCRR Part 371.3.

Based on these considerations, it is ERM's technical opinion that the soil and concrete/debris waste streams are non-hazardous solid wastes. Please advise me if this determination is acceptable to NYSDEC.

Thanks Greg for your assistance and please contact Kris Perritt or me if you have any questions or comments.

Regards,  
Jon

---

Jon S. Fox, P.G.  
Environmental Resources Management  
5788 Widewaters Parkway  
DeWitt, New York 13214 USA  
315-445-2554 (telephone)  
315-445-2543 (facsimile)  
jon.fox@erm.com

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Please visit ERM's web site: <http://www.erm.com>



SKeenan@monroecoun  
ty.gov

10/11/2005 10:14 AM

To: Jon.Fox@erm.com  
cc:  
Subject: Re: Discharge Request.

Based on the analytical data provided by Mr. John Fox in an E-Mail attachment dated 10/10/2005, this office is approving the discharge of approximately 7,315 gallons of water generated during soil excavation and de-watering operations at the UCB Celltech facility. Future discharges will require the same process.

This is the third batch of discharge waters, estimated completion is 4-6 weeks from today.

Sean Keenan

-----  
Sean P. Keenan  
Monroe County Department of Environmental Services  
Office of Industrial Waste  
444 E. Henrietta Road  
Rochester, NY 14620-4630  
Phone: (585) 760-7610 ext. 7143  
Cell Phone: 509-2814  
E-mail: skeenan@monroecounty.gov



"Greg MacLean"  
<gbmaclea@gw.dec.state.ny.us>

10/17/2005 09:24 AM

To: <Jon.Fox@erm.com>  
cc: <jayd@cpward.com>, <ken@cpward.com>, <Dave.Myers@erm.com>, <Ed.Hinchey@erm.com>, <John.Kuhn@erm.com>, <NancyRae.Reese@erm.com>, <Quinn.Lewis@erm.com>  
Subject: Re: B2SA Flowable Fill Characterization Data - 755 Jefferson Rd. Facility, Henrietta, NY NYSDEC VCP# V00

Jon,

Based on my review of the analytical data and technical justification provided below, the flowable fill material is acceptable for use as backfill at the site. Use of this material at the site will not prevent an unrestricted use decision, should that level of cleanup be achieved. Please contact me if there are any questions.

- Greg

Gregory B. MacLean, P.E.                   gbmaclea@gw.dec.state.ny.us  
Environmental Engineer 2  
NYSDEC, Division of Environmental Remediation - Region 8  
6274 East Avon-Lima Road, Avon, NY 14414  
phone: (585) 226-5356 fax: (585) 226-8696  
Visit the DEC web site at:               http://www.dec.state.ny.us

>>> <Jon.Fox@erm.com> 10/14/05 1:34 PM >>>  
Hello Greg

Per our telephone conversation earlier today, please find attached laboratory analytical data for a characterization sample of flowable fill proposed to be used during backfilling of the Room 24 sump excavation at the above-referenced Site. These data are the only data generated for the one sample of flowable fill matrix material collected at Manitou Concrete (a NYSDOT-approved clean source) by ERM on 8 September 2005. ERM apologizes for any confusion in previous conversations related to analytical data associated with a separate sample of grout material to be used between timber lagging and the excavation walls. ERM requests NYSDEC approval of use of this flowable fill based on the attached laboratory analytical results and the following supplemental discussion.

Review of the attached data indicates that all VOCs, SVOCs, and inorganic elements of potential concern were either not detected or were detected at concentrations below Site-specific Recommended Soil Cleanup Objectives (RSCOs) contained in the NYSDEC-approved Remedial Action Work Plan for the Site with the exception of two inorganics: 1) beryllium; and 2) zinc. It is ERM's technical opinion that the reported concentrations of beryllium and zinc in the flowable fill characterization sample are not a concern and that use of this material in B2SA remedial construction is consistent with unrestricted use of the B2SA. A technical justification for our opinion is presented below for each element.

The Site-specific RSCO for beryllium is 0.16 mg/kg or "not detected" (ND), which is the unrestricted use RSCO from NYSDEC's TAGM-4046. The detected concentration of beryllium in the flowable fill characterization sample is 0.21 mg/kg, which is equal to the practical quantitation limit for this analysis. As discussed in Section 3.3 of the B2SA RDI Report (ERM, 2004), ERM has typically received laboratory analytical reports from NYSDOH-approved environmental laboratories which include low-level detections of beryllium at or just slightly above the practical quantitation limit. The reported practical quantitation limits from ASP analyses for beryllium in soil samples included in the B2SA RDI Report



range from 0.52 to 1.1 mg/Kg, which is essentially the same range as the minimum and maximum concentrations in B2SA soil samples (0.55 to 1.1 mg/Kg). The geometric mean of all beryllium detections in B2SA soil (0.698 mg/Kg) is similar to the geometric mean of the practical quantitation limits for those analyses (0.588 mg/Kg). These data indicate that detected concentrations of beryllium in B2SA soil are not significantly different from practical quantitation limits. The attached data suggest the same relationship exists for the flowable fill matrix material.

The detected concentration of zinc in the flowable fill characterization sample (118 mg/kg) is greater than the Site-specific RSCO (74.2 mg/kg). However, this result is interpreted as a background concentration based on review of laboratory analytical data from B2SA soil samples (ERM, 2005) and relevant published scientific literature on typical background concentrations of zinc in soil. The detected concentration of zinc in a soil sample from soil boring BB2-10 was 122 mg/kg. However, this result was shown to be a background concentration as documented in Pages 4 and 5 of the NYSDEC-approved Addendum to the B2SA RDI Report (ERM, 2005). Additionally, statistical calculation of the approximate 95th percentile of background soil zinc concentrations for the eastern United States using the very large data set of Shacklette and Boerngen (1984) indicates that zinc may be present in background soil samples at concentrations as high as 178 mg/kg. Many other studies have also documented that zinc may be detected in background soil samples at concentrations greater than 118 mg/kg (Aubert and Pinta, 1977; McBride, 1994; Fox and Fox, 2002; Siegel, 2002; Sposito, 1989).

Based on these data, it is ERM's technical opinion that the reported concentrations of beryllium and zinc in the flowable fill characterization sample are not a concern and that use of this material in B2SA remedial construction is consistent with unrestricted use of the B2SA. Please advise me as soon as possible if use of the flowable fill is acceptable to the Department and is consistent with unrestricted use of the B2SA. Thanks Greg for your assistance and please contact me if you have any questions or comments.

Regards,  
Jon

#### REFERENCES CITED

Aubert, H. and Pinta, M., 1977. Trace elements in soils. Elsevier Scientific Publishing Company, Amsterdam.

ERM, 2004. Building #2 Sump Area Remedial Design Investigation Report \* 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York. NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, July 2004.

ERM, 2005. Addendum to the Building #2 Sump Area Remedial Design Investigation Report - 755 Jefferson Road Facility, Town of Henrietta, Monroe County, New York - Attachment A, Figure 13 (Zinc in Soil). NYSDEC VCP Number V00126-8; Environmental Resources Management, DeWitt, New York, 5 April 2005.

Fox, J.D. and Fox, J.S., 2002. Metrological considerations in flame atomic absorption analyses versus certified reference materials of soils from Onondaga County, New York State (USA), for background trace metal

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Shacklette, H.T. and Boerngen, J.G., 1984. Element concentrations in soils and other surficial materials of the conterminous United States. United States Geological Survey Professional Paper 1270, Government Printing Office, Washington D. C., 105 pp.

Siegel, F.R., 2002. Environmental geochemistry of potentially toxic metals. Springer-Verlag, Berlin, 218 pp.

Sposito, G., 1989. The chemistry of soils. Oxford University Press, New York.

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Please visit ERM's web site: <http://www.erm.com>



SKeenan@monroecoun  
ty.gov

11/16/2005 08:42 AM

To: Jon.Fox@erm.com  
cc:  
Subject: Re: Analytical Data B2SA Wastewater Batch 04 - 755 Jefferson Road,  
Henrietta, NY NYSDEC VCP# V00126-8

John,

This will serve as approval to discharge 10,640 gallons of water removed from excavations at UCB Celltech. Th analytical data as submitted to this office meets the requirements of the Monroe County Sewer Use Law. You will be required to follow the discharge plan as outlined in your correspondence to this office dated 11/14/2005. This office will require that ERM follow the pH adjustment as outlined in the discharge plan. Please notify this office should any problem arise and upon completion of the discharge.

-----  
Sean P. Keenan  
Monroe County Department of Environmental Services  
Office of Industrial Waste  
444 E. Henrietta Road  
Rochester, NY 14620-4630  
Phone: (585)760-7610 ext. 7143  
Cell Phone: 509-2814  
E-mail: skeenan@monroecounty.gov

Jon.Fox@erm.com

To:

skeenan@monroecounty.gov

11/14/2005 03:09

cc:

Jeffrey.Hohman@ucb-group.com, Dave.Panipinto@ucb-group.com,

PM

lford@nixonpeabody.com,

mbyrne@townofhenrietta.org, gbmaclea@gw.dec.state.ny.us,

bxputzig@gw.dec.state.ny.us,

Ed.Hinchey@erm.com, Kristopher.Perritt@erm.com,

NancyRae.Reese@erm.com,

Melissa.Smith@erm.com, Todd.Marsh@erm.com

Subject: Analytical Data B2SA

Wastewater Batch 04 - 755 Jefferson Road, Henrietta, NY

NYSDEC VCP# V00126-8

Hello Sean

ERM has received laboratory analytical results for the fourth and final batch of wastewater (10,640 gallons) from soil excavation de-watering operations at the above-referenced remediation project. These data are attached below.

The wastewater has a pH of 11.1 as measured in the field by ERM during sample collection using a calibrated electronic pH meter. Laboratory analysis of the wastewater resulted in a measured pH value of 11.0. It is ERM's technical opinion that the pH of the fourth batch is higher than previous batches because a concrete floor was being poured in the B2SA during recent de-watering activities. Review of the attached tables indicates all other analytical parameters were either not detected or were detected at concentrations below their applicable discharge limit. Based on these data and review of applicable regulations, it is ERM's technical opinion that the fourth batch of wastewater is a non-hazardous waste.

ERM understands that UCB's existing Sewer Use Permit requires a pH in the range of 6.0 to 9.0 standard units for discharge to the sanitary sewer. Therefore, pH adjustment of the fourth batch is required. ERM proposes the following actions to adjust the pH of the water to between 6.0 and 9.0 standard units.

1. ERM will conduct a bench test in the field on a small volume of water pumped from the frac container to a separate container to confirm our preliminary estimate of the approximate volume of muriatic acid (30% hydrochloric acid solution) needed to adjust the pH of the fourth batch to a target pH of approximately 8.0 standard units. Based on preliminary calculations, we estimate that a relatively small volume of muriatic acid will be required (approximately one gallon).
2. Based on the results of the field bench test, ERM will add approximately one-half of the total estimated volume of muriatic acid required to the wastewater. Water in the frac container will be continuously circulated during this process using two large sump pumps and associated hoses to ensure uniform distribution of the neutralizing solution through the frac container. The pH of the wastewater will be monitored periodically during the neutralization process using a calibrated electronic pH meter. If necessary based on pH monitoring, additional muriatic acid will be added in small amounts until an acceptable pH level is achieved and has stabilized.
3. ERM will discharge the contents of the frac container to the sanitary sewer after pH has stabilized at a level between 6.0 and 9.0 standard units as demonstrated by a minimum of three consecutive readings within 10% of each other over a period of at least one hour, with no readings outside the pH range of 6.0 to 9.0 standard units.

The County is of course welcome to attend any portion or all of the field bench testing, the neutralization procedure, and/or the discharge to the sanitary sewer. We anticipate the work described above will be completed in one day.

As previously discussed, ERM has consulted with the Town of Henrietta (Mr. Mark Byrne, P.E.) regarding flow rate of the proposed discharge. Mr. Byrne indicated that flow rate does not have to be monitored or otherwise controlled as long as the discharge occurs through a facility lateral, as this approach will control the discharge rate. UCB has provided ERM with a location to discharge inside Building #2 (a floor drain inside Room 1078) that is conveniently near the frac container and will allow us to implement the Town's requirement in an efficient manner.

We would like to proceed with the field bench test, on-Site neutralization, and proposed discharge this week if possible so we may hopefully dispose of this wastewater prior to the onset of freezing temperatures.

Thank you Sean for your assistance. Please advise us at your earliest convenience if the proposed approach and procedures are acceptable to Monroe County.

Regards,  
Jon

---

Jon S. Fox, P.G.  
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Please visit ERM's web site: <http://www.erm.com> (See attached file: B2SA Water Batch 04-VOCs-I288.xls) (See attached file: B2SA Water Batch 04-Metals



& pH-A05-C451.pdf) B2SA Water Batch 04-VOCs-I288.xls B2SA Water Batch 04-Metals & pH-A05-C451.pdf

*Appendix H*

*Data Usability Summary Report*

**Environmental  
Resources  
Management**

Suite 210  
521 Broad Hollow Road  
Melville, NY 11767  
631-750-9000  
fax 631-750-9901  
<http://www.erm.com>

22 December 2005

Jon Fox  
ERM  
5788 Widewaters Parkway  
Dewitt, NY 13214



**ERM**<sup>®</sup>

RE: 755 Jefferson Road Facility, Henrietta, New York  
Data Usability Summary Reports (DUSR)  
B2SA Room 24 Excavation Confirmation Soil Samples  
Severn Trent Laboratories (STL), Buffalo, New York  
Job Numbers A05-B399, A05-B762, A05-C247

Jon,

Enclosed is the DUSR for the above referenced project and the qualified Form I's. Thank you for the work. If you have any questions, comments or require additional information, please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andrew J. Coenen', with a long horizontal flourish extending to the right.

Andrew J. Coenen  
ERM QA/QC Officer

**DATA USABILITY SUMMARY REPORT (DUSR)  
755 JEFFERSON ROAD FACILITY  
HENRIETTA, NEW YORK  
B2SA ROOM 24 EXCAVATION CONFIRMATION SOIL SAMPLES  
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)  
SEVERN TRENT LABORATORIES (STL), BUFFALO, NEW YORK  
JOB NUMBERS A05-B399, A05-B762, A05-C247**

***Deliverables:***

The above referenced data packages for nine (9) soil samples, one (1) blind field duplicate sample, one (1) field blank, one (1) trip blank, and one (1) set of matrix spike/matrix spike duplicate (MS/MSD) contains all the required deliverables as stipulated under the 2000 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B deliverables. The sample specific analysis includes Volatile Organic Compound (VOC) analysis by USEPA SW-846 Method 8260B with the following three (3) project specific compounds: Acetone, Benzene, and Methylene Chloride; Semivolatile Organic Compound (SVOC) analysis by USEPA SW-846 Method 8270C with the following twenty-two (22) project specific compounds: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Carbazole, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, Pyrene; and Metals analysis with Mercury analyzed by USEPA SW-846 Method 7470A/7471A and the remaining eleven (11) project specific analytes: Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Iron, Lead, Selenium, Silver, and Zinc analyzed by USEPA SW-846 6010B. Analytical methods follow "Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions." The data have been evaluated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (July 2002), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, the USEPA Region II Data Review SOP Number HW-22, Revision 2, June 2001: Validating Semivolatile Organic Compounds by SW-846 Method 8270C, the USEPA Region II Data Review SOP Number HW-2, Revision 11, January 1992: Evaluation of Metals Data for the CLP Program and the reviewer's professional judgment.



This report pertains to the following soil samples collected on 11 October 2005, 19 October 2005, 27 October 2005, and 28 October 2005:

Samples

<u>A05-B399</u>	<u>A05-B762</u>	<u>A05-C247</u>
B2SA-01 (10)	B2SA-05 (14)	B2SA-06
B2SA-02 (10)		B2SA-07
B2SA-03 (10)		B2SA-08
B2SA-04 (10)		B2SA-09

QC Samples

B2SA-DUP (blind field duplicate of sample B2SA-08)  
B2SA-04 (10) MS/MSD  
B2SA-FB (101905)  
TRIP BLANK

*Note: The sample identifications contained in STL Job Number A05-B399 were listed incorrectly by the laboratory on the Form Is. These have been corrected by the data reviewer to match what appeared on the chain-of-custody (COC). No qualification of the sample data is required for this issue.*

*The temperature of the cooler containing samples collected on 11 October 2005 (A05-B399) was 12°C at the time of sample receipt at the laboratory. The samples were collected in the field, put on ice and driven to the laboratory immediately following sample collection. The samples did not have sufficient time to attain the appropriate temperature (4°C±2°C). It is the reviewer's professional opinion that the integrity of the samples is not compromised and therefore no qualification of the sample data is necessary.*

**Organics**

The following items/criteria were reviewed:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and temperature)
- Surrogate compound recoveries, summary and data
- MS/MSD results, recoveries, summary and data
- Matrix Spike Blank (MSB) results, recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Field Blank Results

- Trip Blank results
- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above have been judged to be in compliance with the analytical methods and with the ASP criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

### *Volatiles*

- The following table lists blanks (method, field and trip blanks), blank contaminants with concentrations and the samples associated with the blanks. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a "U". For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank	Contaminant	Concentration (Action Level)	Associated Samples
VBLK17	methylene chloride	3 (30 µg/kg)	QC samples ONLY
VBLK18	methylene chloride	3 (30 µg/kg)	QC samples ONLY
B2SA-FB (101905)	acetone methylene chloride	6 (60 µg/kg) 5 B (50 µg/kg)	All samples
TRIP BLANK	methylene chloride	5 B (50 µg/kg)	All samples

### *Semivolatiles*

- The following table lists blanks, blank contaminants with concentrations and the samples associated with the blanks. Common laboratory phthalate contaminants such as bis(2-ethylhexyl)phthalate are negated in a sample if the sample concentration is less than or equal to ten times (10x) the highest associated blank concentration. For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank	Contaminant	Concentration (Action Level)	Associated Samples
S Blank	bis(2 ethylhexyl)phthalate	33 J (330 µg/kg)	All samples in A05-C247

- Sample B2SA-08 contained low level positive concentrations for Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Phenanthrene, and Pyrene while the associated blind field duplicate sample, B2SA-DUP did not. This does occur with soil samples due to the non-homogenous nature of the sample matrix. As a result, all results for both samples are considered estimated with positive results qualified "J" and non-detects qualified "UJ".

### *Inorganics*

The following items/criteria were reviewed:

- Case narrative and deliverable requirements
- Holding times and sample preservation
- Detection limits
- Inorganic analysis data sheets (Form I)
- Initial and continuing calibration verifications
- Contract Required Detection Limit (CRDL) standard analysis
- Lab blank results
- Field Blank results
- ICP interference check sample analysis
- Matrix Spike analysis
- Matrix Spike Duplicate analysis
- Laboratory Control Sample (LCS) results
- ICP Serial Dilution analysis

The items listed above have been judged to be in compliance with the analytical methods and with the ASP criteria with the exceptions discussed in the text below. The data have evaluated according to the procedures outlined above and qualified accordingly.

### *Metals*

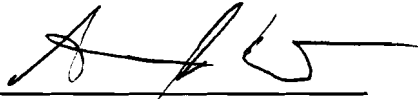
- CRDL standard recoveries were outside of the 80% - 120% USEPA Region II QC limits for selenium (125.3%) in A05-B399. Recoveries greater than 120% may indicate a potential high bias in sample results for selenium in A05-B399. Positive concentrations for selenium in all samples in A05-B399 are considered estimated and qualified "J" while non-detect for selenium in all samples in A05-B399 do not require qualification.

- CRDL standard recoveries were outside of the 80% - 120% USEPA Region II QC limits for lead (122.6%) in A05-B762. Recoveries greater than 120% may indicate a potential high bias in sample results for lead in A05-B762. Positive concentrations for lead in all samples in A05-B762 are considered estimated and qualified "J" while non-detect for lead in all samples in A05-B762 do not require qualification.
- The matrix spike sample percent recovery (%R) for antimony (34.9%, 34.7%, 50.5%, 45.0%, 34.2%, 43.3%) and lead (231.4%) were outside QC limits (75-125%) indicating a potential low bias for antimony and a potential high bias for lead. For a %R between 30-74%, results greater than the instrument detection limit (IDL) are considered estimated and qualified "J" while non-detects are qualified "UJ". For a %R greater than 125%, results greater than the IDL are considered estimated and qualified "J" while non-detects are acceptable and not qualified.
- The laboratory duplicate analyses exhibited RPDs greater than the specified 20% QC limit for metals whose concentration in both the sample and duplicate were greater than five times the CRDL for antimony (200.0%), beryllium (22.2%), cadmium (22.5%), lead (84.9%), selenium (22.3%), and mercury (23.0%). All soil results for these analytes with results greater than the IDL are qualified "J" and non-detects qualified "UJ".
- The ICP serial dilution analysis applicable to all samples in A05-B399 exhibited iron with a percent difference result greater than 10% and an initial sample concentration greater than 50 times the IDL (10.1%). Results for iron all samples in A05-B399 are considered estimated and qualified "J" for positive detects and "UJ" for non-detects.
- The ICP serial dilution analysis applicable to all samples in A05-C247 exhibited iron with a percent difference result greater than 10% and an initial sample concentration greater than 50 times the IDL (22.6%). Results for iron all samples in A05- C247 are considered estimated and qualified "J" for positive detects and "UJ" for non-detects.

*Package Summary:*

All data are valid and usable with qualifications as noted in this review.

Signed:



Andrew J. Coenen  
ERM QA/QC Officer

Dated: 21 December 2005

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

BD2SA-01 (10)Lab Name: SIL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5B39901Sample wt/vol: 5.18 (g/mL) GLab File ID: F6566.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: not dec. 16 Heated Purge: YDate Analyzed: 10/14/2005GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>UG/KG</u>	<u>Q</u>
67-64-1-----	Acetone		29	U
71-43-2-----	Benzene		6	U
75-09-2-----	Methylene chloride		6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

16/609

Client No.

B  
2SA-02 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B39902

Sample wt/vol: 5.19 (g/mL) G Lab File ID: F6608.RR

Level: (low/med) LOW Date Samp/Recv: 10/11/2005; 10/11/2005

% Moisture: not dec. 14 Heated Purge: Y Date Analyzed: 10/17/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
67-64-1-----	Acetone	28	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

17/609

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B

172SA-03 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECLNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B39903

Sample wt/vol: 5.13 (g/mL) G Lab File ID: F6570.RR

Level: (low/med) LOW Date Samp/Recv: 10/11/2005 10/11/2005

% Moisture: not dec. 17 Heated Purge: Y Date Analyzed: 10/14/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1	Acetone		29	U
71-43-2	Benzene		6	U
75-09-2	Methylene chloride		6	U



18/609

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B  
12SA-04 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B39904

Sample wt/vol: 5.20 (g/mL) G Lab File ID: F6572.RR

Level: (low/med) LOW Date Samp/Recv: 10/11/2005 10/11/2005

% Moisture: not dec. 21 Heated Purge: Y Date Analyzed: 10/14/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
67-64-1-----	Acetone	30	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

9/891

Client No.

B2SA-05(14)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A5B76201

Sample wt/vol: 5.13 (g/mL) G

Lab File ID: F6785.RR

Level: (low/med) LOW

Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: not dec. 14 Heated Purge: Y

Date Analyzed: 10/26/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
67-64-1-----	Acetone		U
71-43-2-----	Benzene		U
75-09-2-----	Methylene chloride		U

15/668

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-06

Lab Name: SIL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5C24701Sample wt/vol: 5.15 (g/mL) GLab File ID: F6868.RRLevel: (low/med) LOWDate Samp/Recv: 10/27/2005 10/28/2005% Moisture: not dec. 26 Heated Purge: YDate Analyzed: 10/31/2005GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		33	U
71-43-2-----	Benzene		6	U
75-09-2-----	Methylene chloride		6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-07

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RBCNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24702

Sample wt/vol: 5.10 (g/mL) G Lab File ID: F6869.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: not dec. 26 Heated Purge: Y Date Analyzed: 10/31/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		33	U
71-43-2-----	Benzene		7	U
75-09-2-----	Methylene chloride		7	U

17/668

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-08

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: REONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24703

Sample wt/vol: 5.12 (g/mL) G Lab File ID: F6870.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: not dec. 26 Heated Purge: Y Date Analyzed: 10/31/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
67-64-1-----	Acetone	33	U
71-43-2-----	Benzene	6	U
75-09-2-----	Methylene chloride	6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-DUP

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5C24704Sample wt/vol: 5.14 (g/mL) GLab File ID: F6871.RRLevel: (low/med) LOWDate Samp/Recv: 10/27/2005 10/28/2005% Moisture: not dec. 30 Heated Purge: YDate Analyzed: 10/31/2005GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>UG/KG</u>	Q
67-64-1-----	Acetone		35	U
71-43-2-----	Benzene		7	U
75-09-2-----	Methylene chloride		7	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B2SA-09
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Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24705

Sample wt/vol: 5.19 (g/mL) G Lab File ID: F6872.RR

Level: (low/med) LOW Date Samp/Recv: 10/28/2005 10/28/2005

% Moisture: not dec. 26 Heated Purge: Y Date Analyzed: 10/31/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
67-64-1-----	Acetone		33	U
71-43-2-----	Benzene		6	U
75-09-2-----	Methylene chloride		6	U

METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

10/891

Client No.

B2SA-FB(101905)

b Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: A5B76202

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: F6782.FR

Level: (low/med) LOW

Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: not dec. \_\_\_\_\_ Heated Purge: Y

Date Analyzed: 10/26/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
67-64-1-----	Acetone	6	
71-43-2-----	Benzene	1	U
75-09-2-----	Methylene chloride	5	<del>B</del>



METHOD 8260 - 3 COMPOUNDS  
ANALYSIS DATA SHEET

11/891

Client No.

TRIP BLANK

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: A5B76203

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: F6781.RR

Level: (low/med) LOW

Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: not dec. \_\_\_\_\_ Heated Purge: Y

Date Analyzed: 10/26/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
67-64-1-----	Acetone		5	U
71-43-2-----	Benzene		1	U
75-09-2-----	Methylene chloride		5	B

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

6

2SA-01 (10)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5B39901Sample wt/vol: 30.42 (g/mL) GLab File ID: W05969.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: 14 decanted: (Y/N) NDate Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/18/2005Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo (a) anthracene	380		U
205-99-2	Benzo (b) fluoranthene	380		U
207-08-9	Benzo (k) fluoranthene	380		U
191-24-2	Benzo (ghi) perylene	380		U
50-32-8	Benzo (a) pyrene	380		U
117-81-7	Bis (2-ethylhexyl) phthalate	180		J
86-74-8	Carbazole	380		U
218-01-9	Chrysene	380		U
53-70-3	Dibenzo (a, h) anthracene	380		U
132-64-9	Dibenzofuran	380		U
84-74-2	Di-n-butyl phthalate	380		U
117-84-0	Di-n-octyl phthalate	380		U
206-44-0	Fluoranthene	380		U
86-73-7	Fluorene	380		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	380		U
91-57-6	2-Methylnaphthalene	380		U
91-20-3	Naphthalene	380		U
85-01-8	Phenanthrene	380		U
129-00-0	Pyrene	380		U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B  
2SA-02 (10)Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNV

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOILLab Sample ID: A5E39902Sample wt/vol: 30.23 (g/mL) GLab File ID: W05970.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: 13 decanted: (Y/N) NDate Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/18/2005Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo (a) anthracene	380		U
205-99-2	Benzo (b) fluoranthene	380		U
207-08-9	Benzo (k) fluoranthene	380		U
191-24-2	Benzo (ghi) perylene	380		U
50-32-8	Benzo (a) pyrene	380		U
117-81-7	Bis (2-ethylhexyl) phthalate	86		J
86-74-8	Carbazole	380		U
218-01-9	Chrysene	380		U
53-70-3	Dibenzo (a, h) anthracene	380		U
132-64-9	Dibenzofuran	380		U
84-74-2	Di-n-butyl phthalate	380		U
117-84-0	Di-n-octyl phthalate	380		U
206-44-0	Fluoranthene	380		U
86-73-7	Fluorene	380		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	380		U
91-57-6	2-Methylnaphthalene	380		U
91-20-3	Naphthalene	380		U
85-01-8	Phenanthrene	380		U
129-00-0	Pyrene	380		U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B

D2SA-03 (10)

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOILLab Sample ID: A5B39903Sample wt/vol: 30.18 (g/mL) GLab File ID: W05971.RRLevel: (low/med) LOWDate Samp/Recv: 10/11/2005 10/11/2005% Moisture: 16 decanted: (Y/N) NDate Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL)Date Analyzed: 10/18/2005Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene		390	U
208-96-8-----	Acenaphthylene		390	U
120-12-7-----	Anthracene		390	U
56-55-3-----	Benzo (a) anthracene		390	U
205-99-2-----	Benzo (b) fluoranthene		390	U
207-08-9-----	Benzo (k) fluoranthene		390	U
191-24-2-----	Benzo (ghi) perylene		390	U
50-32-8-----	Benzo (a) pyrene		390	U
117-81-7-----	Bis (2-ethylhexyl) phthalate		390	U
86-74-8-----	Carbazole		390	U
218-01-9-----	Chrysene		390	U
53-70-3-----	Dibenzo (a, h) anthracene		390	U
132-64-9-----	Dibenzofuran		390	U
84-74-2-----	Di-n-butyl phthalate		390	U
117-84-0-----	Di-n-octyl phthalate		390	U
206-44-0-----	Fluoranthene		390	U
86-73-7-----	Fluorene		390	U
193-39-5-----	Indeno (1,2,3-cd) pyrene		390	U
91-57-6-----	2-Methylnaphthalene		390	U
91-20-3-----	Naphthalene		390	U
85-01-8-----	Phenanthrene		390	U
129-00-0-----	Pyrene		390	U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

Client No.

B

2SA-04 (10)

Lab Name: STL Buffalo Contract: \_\_\_\_\_Lab Code: RECNV Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOIL Lab Sample ID: A5E39904Sample wt/vol: 30.32 (g/mL) G Lab File ID: W05972.RRLevel: (low/med) LOW Date Samp/Recv: 10/11/2005 10/11/2005% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/12/2005Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/19/2005Injection Volume: 1.00 (uL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo (a) anthracene	390		U
205-99-2	Benzo (b) fluoranthene	390		U
207-08-9	Benzo (k) fluoranthene	390		U
191-24-2	Benzo (ghi) perylene	390		U
50-32-8	Benzo (a) pyrene	390		U
117-81-7	Bis (2-ethylhexyl) phthalate	37		J
86-74-8	Carbazole	390		U
218-01-9	Chrysene	390		U
53-70-3	Dibenzo (a, h) anthracene	390		U
132-64-9	Dibenzofuran	390		U
84-74-2	Di-n-butyl phthalate	390		U
117-84-0	Di-n-octyl phthalate	390		U
206-44-0	Fluoranthene	390		U
86-73-7	Fluorene	390		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	390		U
91-57-6	2-Methylnaphthalene	390		U
91-20-3	Naphthalene	390		U
85-01-8	Phenanthrene	390		U
129-00-0	Pyrene	390		U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

12/891

Client No.

B2SA-05 (14)

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5B76201

Sample wt/vol: 30.09 (g/mL) G Lab File ID: U08179.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/26/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/27/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

83-32-9	Acenaphthene	380	U
208-96-8	Acenaphthylene	380	U
120-12-7	Anthracene	380	U
56-55-3	Benzo (a) anthracene	380	U
205-99-2	Benzo (b) fluoranthene	380	U
207-08-9	Benzo (k) fluoranthene	380	U
191-24-2	Benzo (ghi) perylene	380	U
50-32-8	Benzo (a) pyrene	380	U
117-81-7	Bis (2-ethylhexyl) phthalate	51	J
86-74-8	Carbazole	380	U
218-01-9	Chrysene	380	U
53-70-3	Dibenzo (a, h) anthracene	380	U
132-64-9	Dibenzofuran	380	U
84-74-2	Di-n-butyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	380	U
91-57-6	2-Methylnaphthalene	380	U
91-20-3	Naphthalene	380	U
85-01-8	Phenanthrene	380	U
129-00-0	Pyrene	380	U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

20/668

Client No.

E2SA-06

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: REQNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A5C24701

Sample wt/vol: 30.38 (g/mL) G

Lab File ID: U08273.RR

Level: (low/med) LOW

Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		110	J
208-96-8	Acenaphthylene		370	U
120-12-7	Anthracene		160	J
56-55-3	Benzo (a) anthracene		590	
205-99-2	Benzo (b) fluoranthene		710	
207-08-9	Benzo (k) fluoranthene		210	J
191-24-2	Benzo (ghi) perylene		190	J
50-32-8	Benzo (a) pyrene		490	
117-81-7	Bis (2-ethylhexyl) phthalate		<del>370</del> 34	<del>J</del> U
86-74-8	Carbazole		46	J
218-01-9	Chrysene		540	
53-70-3	Dibenzo (a, h) anthracene		68	J
132-64-9	Dibenzofuran		29	J
84-74-2	Di-n-butyl phthalate		370	U
117-84-0	Di-n-octyl phthalate		370	U
206-44-0	Fluoranthene		1200	
86-73-7	Fluorene		92	J
193-39-5	Indeno (1,2,3-cd) pyrene		190	J
91-57-6	2-Methylnaphthalene		370	U
91-20-3	Naphthalene		370	U
85-01-8	Phenanthrene		400	
129-00-0	Pyrene		930	

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

21/668

Client No.

B2SA-07

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: A5C24702

Sample wt/vol: 30.32\* (g/mL) G

Lab File ID: U08276.RR

Level: (low/med) LOW

Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		380	U
208-96-8	Acenaphthylene		380	U
120-12-7	Anthracene		380	U
56-55-3	Benzo (a) anthracene		36	J
205-99-2	Benzo (b) fluoranthene		99	J
207-08-9	Benzo (k) fluoranthene		27	J
191-24-2	Benzo (ghi) perylene		45	J
50-32-8	Benzo (a) pyrene		73	J
117-81-7	Bis (2-ethylhexyl) phthalate	380	<del>28</del>	<del>BT</del> U
86-74-8	Carbazole		380	U
218-01-9	Chrysene		43	J
53-70-3	Dibenzo (a, h) anthracene		380	U
132-64-9	Dibenzofuran		380	U
84-74-2	Di-n-butyl phthalate		380	U
117-84-0	Di-n-octyl phthalate		380	U
206-44-0	Fluoranthene		54	J
86-73-7	Fluorene		380	U
193-39-5	Indeno (1, 2, 3-cd) pyrene		39	J
91-57-6	2-Methylnaphthalene		380	U
91-20-3	Naphthalene		380	U
85-01-8	Phenanthrene		28	J
129-00-0	Pyrene		44	J



METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

22/668

Client No.

B2SA-08

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: REONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24703

Sample wt/vol: 30.56 (g/mL) G Lab File ID: U08277.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		390	U
208-96-8	Acenaphthylene		390	U
120-12-7	Anthracene		390	U
56-55-3	Benzo (a) anthracene		25	J
205-99-2	Benzo (b) fluoranthene		30	J
207-08-9	Benzo (k) fluoranthene		390	U
191-24-2	Benzo (ghi) perylene		390	U
50-32-8	Benzo (a) pyrene		390	U
117-81-7	Bis (2-ethylhexyl) phthalate	390	<del>65</del>	<del>BJ</del> U
86-74-8	Carbazole		390	U
218-01-9	Chrysene		20	J
53-70-3	Dibenzo (a,h) anthracene		390	U
132-64-9	Dibenzofuran		390	U
84-74-2	Di-n-butyl phthalate		390	U
117-84-0	Di-n-octyl phthalate		390	U
206-44-0	Fluoranthene		50	J
86-73-7	Fluorene		390	U
193-39-5	Indeno (1,2,3-cd) pyrene		390	U
91-57-6	2-Methylnaphthalene		390	U
91-20-3	Naphthalene		390	U
85-01-8	Phenanthrene		56	J
129-00-0	Pyrene		35	J

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

24/668

Client No.

B2SA-DUP

Lab Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECN Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24704

Sample wt/vol: 30.18 (g/mL) G Lab File ID: U08278.RR

Level: (low/med) LOW Date Samp/Recv: 10/27/2005 10/28/2005

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/01/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo (a) anthracene	390		U
205-99-2	Benzo (b) fluoranthene	390		U
207-08-9	Benzo (k) fluoranthene	390		U
191-24-2	Benzo (ghi) perylene	390		U
50-32-8	Benzo (a) pyrene	390		U
117-81-7	Bis (2-ethylhexyl) phthalate	390		U
86-74-8	Carbazole	390		U
218-01-9	Chrysene	390		U
53-70-3	Dibenzo (a, h) anthracene	390		U
132-64-9	Dibenzofuran	390		U
84-74-2	Di-n-butyl phthalate	390		U
117-84-0	Di-n-octyl phthalate	390		U
206-44-0	Fluoranthene	390		U
86-73-7	Fluorene	390		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	390		U
91-57-6	2-Methylnaphthalene	390		U
91-20-3	Naphthalene	390		U
85-01-8	Phenanthrene	390		U
129-00-0	Pyrene	390		U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

23/668

Client No.

E2SA-09

Lab Name: STL Buffalo

Contract: \_\_\_\_\_

Lab Code: RECONY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: A5C24705

Sample wt/vol: 30.36 (g/mL) G Lab File ID: U08337.RR

Level: (low/med) LOW Date Samp/Recv: 10/28/2005 10/28/2005

% Moisture: 19 decanted: (Y/N) N Date Extracted: 10/30/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/03/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		400	U
208-96-8	Acenaphthylene		400	U
120-12-7	Anthracene		400	U
56-55-3	Benzo (a) anthracene		400	U
205-99-2	Benzo (b) Fluoranthene		400	U
207-08-9	Benzo (k) Fluoranthene		400	U
191-24-2	Benzo (ghi) perylene		400	U
50-32-8	Benzo (a) pyrene		400	U
117-81-7	Bis (2-ethylhexyl) phthalate		400	U
86-74-8	Carbazole		400	U
218-01-9	Chrysene		400	U
53-70-3	Dibenzo (a, h) anthracene		400	U
132-64-9	Dibenzofuran		400	U
84-74-2	Di-n-butyl phthalate		400	U
117-84-0	Di-n-octyl phthalate		400	U
206-44-0	Fluoranthene		400	U
86-73-7	Fluorene		400	U
193-39-5	Indeno (1, 2, 3-cd) pyrene		400	U
91-57-6	2-Methylnaphthalene		400	U
91-20-3	Naphthalene		400	U
85-01-8	Phenanthrene		400	U
129-00-0	Pyrene		400	U

400 32 BI U

METHOD 8270 - 22 COMPOUNDS  
ANALYSIS DATA SHEET

13/891

Client No.

B2SA-FB(101905)

Name: STL Buffalo Contract: \_\_\_\_\_

Lab Code: RECNY Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: A5B76202

Sample wt/vol: 990.00 (g/mL) ML Lab File ID: W06188.RR

Level: (low/med) LOW Date Samp/Recv: 10/19/2005 10/19/2005

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 10/25/2005

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/31/2005

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
83-32-9	Acenaphthene		10	U
208-96-8	Acenaphthylene		10	U
120-12-7	Anthracene		10	U
56-55-3	Benzo (a) anthracene		10	U
205-99-2	Benzo (b) fluoranthene		10	U
207-08-9	Benzo (k) fluoranthene		10	U
191-24-2	Benzo (ghi) perylene		10	U
50-32-8	Benzo (a) pyrene		10	U
117-81-7	Bis (2-ethylhexyl) phthalate		10	U
86-74-8	Carbazole		10	U
218-01-9	Chrysene		10	U
53-70-3	Dibenzo (a,h) anthracene		10	U
132-64-9	Dibenzofuran		10	U
84-74-2	Di-n-butyl phthalate		10	U
117-84-0	Di-n-octyl phthalate		10	U
206-44-0	Fluoranthene		10	U
86-73-7	Fluorene		10	U
193-39-5	Indeno (1,2,3-cd) pyrene		10	U
91-57-6	2-Methylnaphthalene		10	U
91-20-3	Naphthalene		10	U
85-01-8	Phenanthrene		10	U
129-00-0	Pyrene		10	U

STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

2SA-01 (10)

Contract: NY05-264Lab Code: STLBFLO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-B399Matrix (soil/water): SOILLab Sample ID: AD558291Level (low/med): LOWDate Received: 10/11/2005

% Solids: 86

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.8	U	X J	P
7440-38-2	Arsenic	2.4			P
7440-41-7	Beryllium	0.56		X J	P
7440-43-9	Cadmium	0.26		X J	P
7440-47-3	Chromium	14.0			P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	16400		X J	P
7439-92-1	Lead	7.0		X J	P
7782-49-2	Selenium	4.8	U	X J	P
7440-22-4	Silver	0.59	U	X J	P
7439-97-6	Mercury	0.023	U		CV
7440-66-6	Zinc	44.8			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

2SA-02 (10)

Contract: NY05-264Lab Code: STLBFLO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-B399Matrix (soil/water): SOILLab Sample ID: AD558294Level (low/med): LOWDate Received: 10/11/2005‡ Solids: 87Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.5	U	X J	P
7440-38-2	Arsenic	2.3	U		P
7440-41-7	Beryllium	0.32		X J	P
7440-43-9	Cadmium	0.23	U	X J	P
7440-47-3	Chromium	7.8			P
7440-50-8	Copper	10.7			P
7439-89-6	Iron	11100		X J	P
7439-92-1	Lead	7.5		X J	P
7782-49-2	Selenium	4.7	U	X J	P
7440-22-4	Silver	0.58	U	X J	P
7439-97-6	Mercury	0.023	U		CV
7440-66-6	Zinc	30.1			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

22SA-03 (10)

Contract: NY05-264Lab Code: STLBFLO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-B399Matrix (soil/water): SOILLab Sample ID: AD558297Level (low/med): LOWDate Received: 10/11/2005% Solids: 84Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.7	U	N* J	P
7440-38-2	Arsenic	2.4	U		P
7440-41-7	Beryllium	0.56		* J	P
7440-43-9	Cadmium	0.24	U	* J	P
7440-47-3	Chromium	14.0			P
7440-50-8	Copper	14.5			P
7439-89-6	Iron	15400		B J	P
7439-92-1	Lead	7.4		N* J	P
7782-49-2	Selenium	4.7	U	* J	P
7440-22-4	Silver	0.59	U	* J	P
7439-97-6	Mercury	0.021	U		CV
7440-66-6	Zinc	46.4			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.  
22SA-04 (10)

Contract: NY05-264

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-B399

Matrix (soil/water): SOIL

Lab Sample ID: AD558298

Level (low/med): LOW

Date Received: 10/11/2005

% Solids: 83

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.3	U	X J	P
7440-38-2	Arsenic	2.6			P
7440-41-7	Beryllium	0.51		J	P
7440-43-9	Cadmium	0.27		J	P
7440-47-3	Chromium	13.2			P
7440-50-8	Copper	14.5			P
7439-89-6	Iron	14900		J	P
7439-92-1	Lead	6.8		J	P
7782-49-2	Selenium	4.6	U	J	P
7440-22-4	Silver	0.58	U	J	P
7439-97-6	Mercury	0.024	U		CV
7440-66-6	Zinc	47.0			P

Color Before: BROWN

Clarity Before: CLOUDY

Texture: TOPSOIL

Color After: YELLOW

Clarity After: CLDY/FI

Artifacts:

Comments:



ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-05 (14)

Contract: NY05-264

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-B762

Matrix (soil/water): SOIL

Lab Sample ID: AD559698

Level (low/med): LOW

Date Received: 10/19/2005

Solids: B6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	18.4	U		P
7440-38-2	Arsenic	3.0			P
7440-41-7	Beryllium	0.40			P
7440-43-9	Cadmium	0.25	U		P
7440-47-3	Chromium	10.6			P
7440-50-8	Copper	12.7			P
7439-89-6	Iron	12700			P
7439-92-1	Lead	6.8	J		P
7782-49-2	Selenium	4.9	U		P
7440-22-4	Silver	0.61	U		P
7439-97-6	Mercury	0.020			CV
7440-66-6	Zinc	40.6			P

Color Before: BROWN

Clarity Before: CLOUDY

Texture: TOPSOIL

Color After: YELLOW

Clarity After: CLDY/FI

Artifacts:

Comments:

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-06

Contract: NY05-264Lab Code: STLBFLO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-C247Matrix (soil/water): SOILLab Sample ID: AD562506Level (low/med): LOWDate Received: 10/28/2005% Solids: 87Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	15.1	U		P
7440-38-2	Arsenic	2.0	U		P
7440-41-7	Beryllium	0.33			P
7440-43-9	Cadmium	0.20	U		P
7440-47-3	Chromium	7.6			P
7440-50-8	Copper	13.2			P
7439-89-6	Iron	9630	J	✓	P
7439-92-1	Lead	5.8			P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	0.50	U		P
7439-97-6	Mercury	0.019	U		CV
7440-66-6	Zinc	57.0			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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STL BUFFALO

ERM  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-07

Contract: NY05-264Lab Code: STLBELO

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG NO.: A05-C247Matrix (soil/water): SOILLab Sample ID: AD562507Level (low/med): LOWDate Received: 10/28/2005% Solids: 87Concentration Units (ug/L or ng/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	16.8	U		P
7440-38-2	Arsenic	3.3			P
7440-41-7	Beryllium	0.59			P
7440-43-9	Cadmium	0.25			P
7440-47-3	Chromium	15.3			P
7440-50-8	Copper	16.2			P
7439-89-6	Iron	17100	J	E	P
7439-92-1	Lead	8.3			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	0.56	U		P
7439-97-6	Mercury	0.019	U		CV
7440-66-6	Zinc	45.9			P

Color Before: BROWNClarity Before: CLOUDYTexture: TOPSOILColor After: YELLOWClarity After: CLDY/FI

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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STL BUFFALO

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-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-08

Contract: NY05-264

Lab Code: STLBFLO Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: A05-C247

Matrix (soil/water): SOIL Lab Sample ID: AD562508

Level (low/med): LOW Date Received: 10/28/2005

% Solids: 83

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	16.2	U		P
7440-38-2	Arsenic	3.3			P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.25			P
7440-47-3	Chromium	15.9			P
7440-50-8	Copper	17.1			P
7439-89-6	Iron	17800	J	P	P
7439-92-1	Lead	6.9			P
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.54	U		P
7439-97-6	Mercury	0.019	U		CV
7440-66-6	Zinc	49.1			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL

Color After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STL BUFFALO

E R M  
-1-  
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-DUP

Contract: NY05-264  
 Lab Code: STLBFLO Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: A05-C247  
 Matrix (soil/water): SOIL Lab Sample ID: AD562509  
 Level (low/med): LOW Date Received: 10/28/2005  
 % Solids: 84

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	15.3	U		P
7440-38-2	Arsenic	3.2			P
7440-41-7	Beryllium	0.55			P
7440-43-9	Cadmium	0.22			P
7440-47-3	Chromium	13.9			P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	16000	J	X	P
7439-92-1	Lead	6.8			P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	0.51	U		P
7439-97-6	Mercury	0.020	U		CV
7440-66-6	Zinc	40.0			P

Color Before: BROWN Clarity Before: CLOUDY Texture: TOPSOIL  
 Color After: YELLOW Clarity After: CLDY/FI Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

STL BUFFALO

## E R M

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-09

Contract: NY05-264

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-C247

Matrix (soil/water): SOIL

Lab Sample ID: AD562510

Level (low/med): LOW

Date Received: 10/28/2005

% Solids: 81

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	18.4	U		P
7440-38-2	Arsenic	3.0			P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.25	U		P
7440-47-3	Chromium	16.2			P
7440-50-8	Copper	15.8			P
7439-89-6	Iron	17600	J		P
7439-92-1	Lead	7.5			P
7782-49-2	Selenium	4.9	U		P
7440-22-4	Silver	0.61	U		P
7439-97-6	Mercury	0.021	U		CV
7440-66-6	Zinc	48.4			P

Color Before: BROWN

Clarity Before: CLOUDY

Texture: TOPSOIL

Color After: YELLOW

Clarity After: CLDY/FI

Artifacts:

Comments:

STL BUFFALO

## ERM

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B2SA-FB(101905)

Contract: NY05-264

Lab Code: STLBFO

Case No.:

SAS No.:

SDG NO.: A05-B762

Matrix (soil/water): WATER

Lab Sample ID: AD560716

Level (low/med): LOW

Date Received: 10/19/2005

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-47-3	Chromium	4.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	50.0	U		P
7439-92-1	Lead	5.0	U		P
7782-49-2	Selenium	15.0	U		P
7440-22-4	Silver	3.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: NONE

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

*Appendix I*

*Non-Hazardous Waste Manifests*



**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A** Manifest Document No. **ES-360835** 2. Page 1 of

3. Generator's Name and Mailing Address: **755 Jefferson Road, Henrietta, New York 14623, Jeff Hohman**  
 4. Generator's Phone: **(585) 274-5819**  
**WCE Manufacturing Inc., 755 Jefferson Road, Henrietta New York 14623**

5. Transporter 1 Company Name: **Buffalo Fuel Corp.** 6. US EPA ID Number: **NY R0800045724** A. Transporter's Phone: **716-278-2001**

7. Transporter 2 Company Name: 8. US EPA ID Number: B. Transporter's Phone:

9. Designated Facility Name and Site Address: **East Park Road, Tonawanda NY** 10. US EPA ID Number: **N/A** C. Facility's Phone: **716-265-3920**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <b>Non RCRA, Non D.O.T. Regulated Material, 30% Soil (PSS)</b>	<b>001</b>	<b>T</b>	<b>EST. 000.15</b>	<b>T</b>
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information  
 Emergency Contact: **Ensol, Inc. Rick Marreale** Weight Ticker No.: **U**  
 Emergency Phone: **716-265-3920** Gross Weight: **80440**  
 Ensol, Inc. Project ID Number: **05-0245-267** Tare Weight: **47000**  
 Truck ID: **781 - R18**  
 Truck Lic.: **AD25065 NY**  
**33,440**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **Jeffrey J. Hohman** Signature: *Jeffrey J. Hohman* Month Day Year: **11/1/05**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: **Halley Keeney** Signature: *Halley Keeney* Month Day Year: **11/1/05**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space  
 Actual Weight = **33,440**  
**16.721**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Month Day Year:

GENERATOR

TRANSPORTER

FACTORY

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **E/A**

Manifest Document No.

2. Page 1 of

**ES-560832**

3. Generator's Name and Mailing Address  
**755 Jefferson Road, Henrietta  
 New York 14623, Jeff Hohman**

4. Recipient's Name and Mailing Address  
**UCS Manufacturing Inc.,  
 755 Jefferson Road,  
 Henrietta New York 14623,**

4. Generator's Phone ( ) **585-274-5819**

**HL**

5. Transporter 1 Company Name  
**DEP Corp BUFFALO Fuel C-11**

6. US EPA ID Number  
**NYR000045724**

A. Transporter's Phone  
**716-276-2000**

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
**East Park Road  
 Tonawanda NY**

10. US EPA ID Number  
**E/A**

C. Facility's Phone  
**716-265-3930**

11. Waste Shipping Name and Description

12. Containers  
 No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **From RCRA, Non D.O.T. regulated Material, MSW Soil (PCS)**

**001**

**T**

**00015**

**T**

b.

c.

d.

D. Additional Descriptions for Materials Listed Above  
**REGULATED WASTE 700126-S**

E. Handling Codes for Wastes Listed Above  
**I**

15. Special Handling Instructions and Additional Information

Emergency Contact: **Ensel, Inc. Nick Marzella**  
 Emergency Phone: **716-265-3930**  
 Ensel, Inc. Phone Number: **487 700-3245-251**  
 Truck ID: **9025068 NY**  
 Truck Lic.:

Weight Ticked No.:  
 Gross Weight:  
 Tare Weight:

**18**  
**74240**  
**47400**  
**26840**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
**Jeffrey J. Hohman**

Signature  
*Jeffrey J. Hohman*

Month Day Year  
**11/15/05**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
**KROANING**

Signature  
*Justin Kroaning*

Month Day Year  
**11-15-05**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space  
 Item #s Estimated. Actual Weight =

**26,840.165**  
**12/12/05**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name  
**Scott M. ...**

Signature  
*Scott M. ...*

Month Day Year  
**11-15-05**

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A*

Manifest Document No.

2. Page 1 of

EB-360831

3. Generator's Name and Mailing Address  
 755 Jefferson Road, Henrietta  
 New York 14623, Jeff Hohman

Site Address  
 OCE Manufacturing Inc.,  
 755 Jefferson Road,  
 Henrietta New York 14623

4. Generator's Phone ( ) *565-274-5819*

5. Transporter 1 Company Name

*Buffalo Fuel Corp*

6. US EPA ID Number

*W.Y.R. 000045724*

A. Transporter's Phone

*716-276-2000*

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
 East Park Road  
 Tonawanda NY

10. US EPA ID Number  
*N/A*

C. Facility's Phone  
*716-285-3920*

11. Waste Shipping Name and Description

a. *From ECRK, Non P.O.T. Regulated Material, NSM Soil (PCS)*

12. Containers

No. Type

*001 T*

13. Total Quantity

*EST.*

*0.0010*

14. Unit Wt/Vol

*T*

D. Additional Descriptions for Materials Listed Above  
*RESIDUAL VLEP VOILS-B*

E. Handling Codes for Wastes Listed Above  
*I*

15. Special Handling Instructions and Additional Information

Emergency Contact: *Ensol, Inc. Rick Mazzale*  
 Emergency Phone: *716-265-3920*  
 Ensol, Inc. Project ID Number: *05-3245-25T*  
 Truck ID: *731-828*  
 Truck Lic.: *AD 25008 NY*

Weight Ticket No.:

*5*  
*61520*  
*47600*  
*13920*

Gross Weight:

Trace Weight:

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
*Jeffrey J. Hohman*

Signature  
*Jeffrey J. Hohman*

Month Day Year  
*11/16/05*

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
*Halley Keeney*

Signature  
*Halley Keeney*

Month Day Year  
*11/16/05*

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space  
 Actual Weight = *13,920 lbs*

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name  
*Robert R. Sporn*

Signature  
*Robert R. Sporn*

Month Day Year  
*11/16/05*

GENERATOR

TRANSPORTER

FACILITY

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

ES-360830

Site Address

3. Generator's Name and Mailing Address  
 New York 14623, Jeff Rohman  
 585-278-5819

UCB Manufacturing Inc.,  
 755 Jefferson Road,  
 Henrietta New York 14623,

4. Generator's Phone ( )

5. Transporter 1 Company Name

Buffalo Fuel Corp.

6. US EPA ID Number

NYR0000075729

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

East Park Road  
 Tonawanda NY

10. US EPA ID Number

NY 5

C. Facility's Phone

716-265-3920

11. Waste Shipping Name and Description

a. Non RCRA, Non D.O.T. Regulated Material, ACM Soil (PCS)

12. Containers

No. Type

001 T

13. Total Quantity

00065

14. Unit Wt/Vol

T

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Nick Marziale

Emergency Phone: 716-265-3920

Ensol, Inc. Facility ID Number: 05-3245-251

Truck ID: A175058 NY

WRB 358 25

Weight Ticket No.:

Gross Weight:

Tare Weight:

19  
 71720  
 47410  
 27320

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Jeffrey S. Hohman

Signature: Jeffrey S. Hohman

Month: 11 Day: 16 Year: 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Harry Krenny

Signature: Harry Krenny

Month: 11 Day: 16 Year: 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space. Actual Weight = 27320.10

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gordon R. So Now

Signature: Gordon R. So Now

Month: 11 Day: 16 Year: 05

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. Manifest Document No. 2. Page 1 of 2 ES-360529

3. Generator's Name and Mailing Address: **755 Jefferson Road, Henrietta, New York 14623, Jeff Holman**  
 4. Generator's Phone: **565-274-3619**

5. Transporter 1 Company Name: **BUFFALO FUEL CO** 6. US EPA ID Number: **NY.R.O.O.O.O.4.5.7.24** A. Transporter's Phone: **93-3606**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address: **East Park Road, Tonawanda, NY** 10. US EPA ID Number: **E/A** C. Facility's Phone: **716-265-3920**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <b>See BULK, Non H.C.P. Regulated Material, ACM Soil (PCS)</b>	<b>001</b>	<b>T</b>	<b>EST 10010</b>	<b>T</b>
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above E. Handling Codes for Wastes Listed Above: **I**

15. Special Handling Instructions and Additional Information  
 Emergency Contact: **Ensol, Inc. Rick Morrone** Height Ticket No.: **7**  
 Emergency Phone: **716-265-3920** Gross Weight: **16170**  
 Ensol, Inc. Project ID Number: **23-3285-287** Tare Weight: **97500**  
 Truck ID: **407 - R28** **16140**  
 Truck Lic.: **AV 25068 NY**  
**C-254, UN # NCB 18-25**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **Jeffrey J. Holman** Signature: *Jeffrey J. Holman* Month Day Year: **1/11/05**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: **Hartley Kierney** Signature: *Hartley Kierney* Month Day Year: **1/11/05**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication, Spec. Actual Weight = **16,140.165**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: **Samuel K. ...** Signature: *Samuel K. ...* Month Day Year: **1/11/05**

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **27A**

Manifest Document No.

2. Page 1 of

**ES-360626**

3. Generator's Name and Mailing Address  
**WCH Manufacturing Inc**  
**755 Jefferson Road,**  
**Henrietta New York 14623, Jeff Rohman**

Site Address  
**WCH Manufacturing Inc**  
**755 Jefferson Road,**  
**Henrietta New York 14623,**

4. Generator's Phone ( ) **585-274-5819**

5. Transporter 1 Company Name **Buffalo Fuel Corp** US EPA ID Number **NY 0015724**

A. Transporter's Phone **716-278-2800**

7. Transporter 2 Company Name 8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address 1. Closure 10. US EPA ID Number **N/A**

C. Facility's Phone **716-280-3920**

11. Waste Shipping Name and Description

12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. <b>001</b>	<b>15</b>	<b>1</b>
b. . . . .	. . . . .	. . . . .
c. . . . .	. . . . .	. . . . .
d. . . . .	. . . . .	. . . . .

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above **L**

15. Special Handling Instructions and Additional Information

Emergency Contact: **Ensol, Inc. Nick Morreale**  
 Emergency Phone: **716-255-3920**  
 Ensol, Inc. Project #/ID Number: **05/2245-25T**  
 Truck ID: **AD 25068**  
 Weight Ticket No.: **15**  
 Gross Weight: **76,400**  
 Tare Weight: **77,900**  
**29,000**  
**CONTAINER II WRB 530-25**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **Jeffrey J. Hohman** Signature: *Jeffrey J. Hohman* Month: **11** Day: **17** Year: **2005**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: **Harvey Keenan** Signature: *Harvey Keenan* Month: **11** Day: **17** Year: **2005**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: Signature: Month: Day: Year:

19. Discrepancy Indications Spec. Actual Weight = **29,000.165**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Signature: Month: Day: Year:

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A**

Manifest No. **000027**

2. Page 1 of

**ES-360827**

3. Generator's Address: **755 Jefferson Road, Henrietta New York 14623, Jeff Hohman**

Site Address: **UCB Manufacturing Inc., 755 Jefferson Road, Henrietta New York 14623,**

4. Generator's Phone: **585-274-5819**

**HK**

5. Transporter 1 Company Name: **Buffalo Fuel Corp**

6. US EPA ID Number: **NYR000045724**

A. Transporter's Phone: **716-278-2000**

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Treatment, Storage, and Disposal Facility Closure Address: **East Park Road Tonawanda NY**

10. US EPA ID Number: **N/A**

C. Facility's Phone: **716-285-3920**

11. Waste Shipping Name and Description

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **Non RCRA, Non D.O.T. Regulated Material, ACM Soil (PCS)**

**001**

**T**

**00015**

**T**

D. Additional Designations for Materials Listed Above: **MSLDEL PCB 700126-8**

E. Handling Codes for Wastes Listed Above: **L**

15. Special Handling Instructions and Additional Information

Emergency Contact: **Ensol, Inc. Nick Morzeale**

Emergency Phone: **716-285-3920**

Ensol, Inc. Project ID Number: **05-3245-25T**

Truck ID: **781 K21**

Truck Lic.: **AD2506Y NY**

**CONTAINER WRB 218-25**

Weight Ticket No.:

Gross Weight:

Tare Weight:

**1**  
**75820**  
**47440**

**28,380**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

**Jeffrey J. Hohman**

*Jeffrey J. Hohman*

**11/28/05**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

**Harley Kierney**

*Harley Kierney*

**11/28/05**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Between Stated Actual Weight =

**28,380**

**100**  
**14.19**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

**Gordon R. Spence**

*Gordon R. Spence*

**11/28/05**

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A** Manifest No. **360826** 2. Page 1 of **ES-360826**

3. Generator's Name and Mailing Address: **UCB Manufacturing Inc., 755 Jefferson Road, Henrietta New York 14623, Jeff Hohman**  
 4. Generator's Phone: **585-274-5819**

Site Address: **UCB Manufacturing Inc., 755 Jefferson Road, Henrietta New York 14623,**

5. Transporter 1 Company Name: **BFC Corp Buffalo Fuel Oil NY 20** 6. US EPA ID Number: **9A 545 820845724**

A. Transporter's Phone: **716-278-2000**

7. Transporter 2 Company Name:  8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address: **Town of Tonawanda Landfill Closure East Park Road Tonawanda NY** 10. US EPA ID Number: **N/A**

C. Facility's Phone: **716-285-4928**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <b>Non RCRA, Non D.O.T. Regulated Material, ACM Soil (PCS)</b>	<b>6</b>	<b>24</b>	<b>00015T</b>	<b>15T</b>
b. <b>ST ASE DM #73064425</b>	<b>1</b>	<b>25</b>	<b>00015T</b>	<b>15T</b>
c. <b>LD 25064 NY</b>	<b>1</b>	<b>25</b>	<b>00015T</b>	<b>15T</b>
d. <b>L27 - L24</b>	<b>1</b>	<b>27</b>	<b>00015T</b>	<b>15T</b>

D. Additional Descriptions for Materials Listed Above: **NYSDOL VCP# V00116-8**

E. Handling Codes for Wastes Listed Above: **L**

15. Special Handling Instructions and Additional Information  
 Emergency Contact: **Ensol, Inc. Nick Morzeale** Weight Ticket No.: **7137A**  
 Emergency Phone: **716-285-3920** Gross Weight: **24440**  
 Ensol, Inc. Project ID Number: **05-3245-25T** Tare Weight: **20000**  
 Truck ID: **481 R27**  
 Truck Lic.: **AD 25064 NY**  
**SI 005 CONTAINER # WAB 308 25**

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **Jeffrey J. Hohman** Signature: *Jeffrey J. Hohman* Month Day Year: **11/28/05**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: **Harley Kroening** Signature: *Harley Kroening* Month Day Year: **11/28/05**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name:  Signature:  Month Day Year:

19. Discrepancy Indication Space: **Actual ~~17168000~~ 17168000**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.  
 Printed/Typed Name: **Charles D. Spencer** Signature: *Charles D. Spencer* Month Day Year: **11/28/05**



**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.  
N/A

Manifest Document No.

2. Page 1 of

ES-040825

3. Generator's Name and Mailing Address  
755 Jefferson Road, Henrieville  
New York 14623, Jeff Hoffman

WCB Manufacturing Inc.  
755 Jefferson Road,  
Henrieville New York 14623

4. Generator's Phone ( ) 585-274-5819

5. Transporter 1 Company Name  
EPC Corp  
6. US EPA ID Number  
N.Y.C. 0.005-95.7.24

A. Transporter's Phone  
716-276-2080

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Cove Park Road  
TOWNSEND NY

10. US EPA ID Number  
N/A

C. Facility's Phone  
716-285-3920

11. Waste Shipping Name and Description

12. Containers  
No. Type

E-18-T  
Total  
Quantity

14. Unit  
Wt/Vol

a. Non HERR, For D & T Regulated Material, HWI Soil (PCS)

001 0

000/0

T

b.

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c.

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d.

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D. Additional Descriptions for Materials Listed Above  
ASBESTOS FOR PULP

E. Handling Codes for Wastes Listed Above  
I

15. Special Handling Instructions and Additional Information  
Emergency Contact: Ecol, Inc. Mike Corrales  
Emergency Phone: 716-285-3920  
Contact: The Enviro-Int'l Group, 405-3245-289  
Truck ID: 451-628  
Truck Lic: AD25 CDX NJ

Assign Ticker to  
Gross Weight  
Tare Weight

15  
31186  
61300  
47080  
14,220

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
Jeffrey J. Hoffman

Signature  
Jeffrey J. Hoffman

Month Day Year  
11/1/05

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name  
Hoffman

Signature  
Hoffman

Month Day Year  
11/1/05

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space  
Actual Weight =  
concrete debris

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY